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IDENTIFIERS

*Career Education Project

ABSTRACT

Designed to supplement the existing curriculum at the junior high (grades 7-9) and secondary (grades 10-12) levels, this curriculum guide contains curriculum units to be used as models for fusing career education into the following areas: English, mathematics, science, and social studies (junior high); business, communications, French, home economics, mathematics, music, science, and social studies (secondary). Each teacher-developed unit is presented under the headings of objectives, procedures, resources and materials, evaluation, and comments on use. A listing of field trip sites and guest speakers for the Sedalia, Missouri area is appended.

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Career Education Project
State Fair Community College
Sedalia, Missouri

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TABLE OF CONTENTS

Acknowledgements	pasa i	
Table of Contents	ii	
Junior High Forward	iii	
Junior High Curriculum Areas		
English Mathematics Science Social Studies	1 13 20 88	
Secondary Forward	. 102	
Secondary Curriculum Areas		
Business Communications French Home Economics Mathematics Music Science Social Studies	103 115 140 154 171 179 208 219	
Field Trip Sites and Guest Speakers	228	

Career Education attempts to help students understand the work ethics imposed by society; develops their work values based on their own personal interests in full awareness of society's demands; helps them become aware of the world of work and its values, prepares for, and ultimately begins and pursues a career, including the possibility of occupational change and the hope for productive use of leisure during that career.

"Career" itself is a confusing term. To us, it refers to the sum total of all the work done by a person in his lifetime. It differs from an occupation in that an occupation is a component of a career at a point in time.

As there is no set definition of Career Education, these materials have been prepared around the concept as it was conceived by these individuals in relation to the three general career education goals set up by the workshop participants.

They are:

For the student

- (1) to develop an awareness of who she/he is and through effective decision-making what she/he can become;
- (2) to become aware of the interrelationships of society with his/her school, community, family, work, and leisure;
- (3) to become aware of the many facets of the world of work.

All objectives, goals and activities included in this guide were developed in relation to these general goals.

The activities which follow are offered as suggestions for supplementing activities in career education programs. This guide's nurpose is not to tell the individual instructor what he or she must do. Rather the guide simply offers an example of what the teacher might do.

As you peruse the materials, take time to look at all activities rather than just your subject area. Many can be modified slightly and fit various situations.

Judy Rae Kuhlman Observation/Exploration Specialist Career Education Project State Fair Community College Sedalia, MO 65301





Subject Area(s) Language Arts

Unit(s) Reading - Leisure and Recreational

Objective(s): The student will become familiar with various awards presented to authors. The student will understand the procedure involved in writing and publishing of manuscripts. The student will read an award winning book.

Procedure:

Teacher presents information about the various awards presented to authors of juvenile books:

Newbery Award, Mark Twain Award, etc.

Teacher presents copies of the award winning books in the school library.

Students have the opportunity to read the books.

Students view "The Story of a Book," or other suitable film dealing with production of a book.

Guest speaker - a writer in the local area.

Students have opportunity for questions and answers with the guest speaker.

Follow-up class discussion of the career related fields, as illustrator, promotional agents, book sales, etc.

Students do a project of their own design as a follow-up to reading a book. This could be a bulletin board, an oral report, a puzzle, a diarama, etc.

Resources and Materials:

School library

Evaluation: Teacher checks and grades follow-up projects.



· \	unit(s)_L	iterature - Sho	ort Stories	- <u></u> -
bjective(s): The student will become become familiar with the character's in	acquainted wi	th a classic sl	nort story and	
*	Dickens A C	mrisemas caror.		
•		1		
rocedure:		Resources and	Materials:	
Read Charles Dickens' "A Christmas Caro	1."	An anthology "A Christmas	containi: Dic Carol"	ckens
discuss each stage for comprehension.			·	
discuss the background information about events surrounding his writing of the s				÷
Trite a composition on one of the follo	wing topics:			
People can carry the spirit of Chri will with them all through the year				,
. Working conditions have greatly imp	roved since			٠.
	·		L	
•				
		a		
•				

Subject Area(s) Language Arts

Unit(s) Literature - Classic Short Story

Objective(s): The student will become familiar with Washington Irving's "Legend of Steepy Hollow." The student will understand the importance of character development in a short story. The student will become familiar with the biographical background of an American writer.

Procedure:

Read Washington Irving's "Legend of Sleepy Hollow."

Discuss the story for comprehension, with emphasis on the character development.

Discuss the character traits of Ichabod Crane and Brom Bones. Compare and contrast these two men.

Discuss Ichabod's ambition to be a wealthy land owner. Encourage the class to decide if he would have been a successful land owner. (why/why not)

Students role play one of the following scenes:

- a. Ichabod in his classroom
- b. Ichabod riding to Van Tassel's party
- c. Ichabod feasting at the Van Tassel table
- d Brom Bones watching Ichabod dancing with Katrina
- e. Ichabod listening to the old wives tales told at the party
- f. Ichabod, being pursued by the Headless Horseman
- Brom, hurling the pumpkin at the fleeing Ichabod

Students write a composition on the following topic sentence:

I would/would not have liked to be a student in Ichabod's class.

Students cooperate to compile two lists of reasons (would/would not) want to be a student in Ichabod's class. Filmstrip: "Irving to Sunnyside."

Adventures for Readers, Harcourt Brace, or other anthology containing the selection

Evaluation: Teacher checks and grades the compositions written by the students.



Subject	Areass) Lauguage arts	
Unit(z)	Oral Presentations	

Objective(s): The student will learn how to participate in a panel discussion.

Procedure:

Present the methods and guidelines for participation in panel discussions.

Divide students into career interest groups.

Allow time for students to research their career interest in the library.

Present each panel discussion for the class, after time has been given for preparation of the panel by the students. Resources and Materials:

Warriners, English Gramma and Composition, Harcourt, Brace, Chapter 24

School library

Evaluation: Class evaluates each panel by use of a check-off sheet prepared by the teacher. This is a listening exercise.

Subject .	Area(s)_	English		-	_
anna.	_				•
Unit(s)_	Literat	ure	·	 	

Objective(s): Students will become aware of traits, qualities, and characteristics that can contribute to success in his life and other persons.

Procedure:

Read a biography or autobiography or cuttings from several biographies or autobiographies.

Class discussion of readings with the sharing of traits and qualities found.

Interview a person in the community that the students regard as successful and why he is successful.

Write a composition either about the qualities for syccess or the qualities and traits found in the interviewed person that makes him successful.

Resources and Materials:

Adventures in Reading, by Harcourt, Brace, and World

Patterns in Literature, Holt, Rinehart, and Winston

Resource person in community

Library

From We, From Alone

Evaluation: Share compositions with class. Compositions checked by teacher for punctuation, spelling, etc.



Subject	Area(s)	English
---------	---------	---------

Unit(s) Literature

Objective(3): Students will have general knowledge and understanding of the blind's world and occupations available.

Procedure:

Read Helen Keller by Van Wych Brooks and The World at My Fingertips by Parsten Ohnstead.

Discussion of stories and problems blind may eaccunter in the world. Examine braille books.

Invite blind person in community as a guest speaker with emphasis on what he encounters and occupations to blind people.

Question and answer period with guest speaker.

FollOw-up discussion the next day.

.. ite a poem or short story on blindness

Read The Miracle Worker (Drama).

Grade saits on being blind. .

Resources and Macerials:

Advantures for Readers
Advantures in Reading
School and public library.

braille books

Guest speaker and his equipment

Local club for handicapped persons

Themes in literature, p. 314

Evaluation: Sharing of poems and themes in class. Class discussion.

Comments on use: Children have much empathy for guest speaker and are amazed at all the equipment available to the blind

11

Mary Lynn Fillinger Dorothy England Delta Russell



Subject	Area(s)_	English		*
Unir(s)	Gramma	rParts oi	Speech	

Objective(s): Students will have general knowledge of the purpose of parts of speech and their uses in language.

Procedure:

Teacher introduces a blueprint to class.

Discussion of purpose of blueprint.

Discussion of professions that use blueprints.

Relationship of words to writers as blueprints to architects (analogy).

Show sentence diagrams and places for parts of speech Examples of sentence diagram. on diagram.

Resources and Materials: Blueprint of building, etc.

keletal diagrams on overhead and chalkboard.

Class discussion and students see the parts of speech in language. Evaluation:

Comments on use: Students become more aware of uses and applications of parts of speech.

> Mary Lynn Fillinger Dorothy England Delta Russell



Subject Area(s) Language Arts

Unit(s) Writing Completing Business Forms

Objective(s): The student will be familiar with employment application forms and terminology used, on the forms.

Procedure:

Teach correct procedure for completing application forms.

Show students what is needed at hand for completing forms: social security number, names and addresses of references, etc.

Present sample applications and go through one as a group, explaining terminology on the forms.

Student completes application form individually.

Ask a local personnel director to speak to the class regarding importance of the application forms; points employers look for, such as neatness, completion, accuracy; etc.

Question and answer session with speaker.

Follow-up discussion by the class concerning their applications, problems they had in completing storms, etc.

...ources and Materials:

Sample forms and resources from SFCC Career Education Librar,

Local personnel director

Evaluation: Teacher checks forms for neatness, correctness, and completeness.

Comments on use:

.13

Mary Lynn Fillinger Delta Russell Dorothy England



Subject Area(s) English

Unit(s). Speaking - personal interview

Of the otive(s): Student will become aware of the necessary information and procedure used in personal interviews.

Procedure:

Present to class necessary information available for personal interview, also, correct manners and grooming.

Follow-up discussion.

Have personnel director from local industry come and speak on the procedure used in personal interviews and give tips to students.

Class (role-play) interview classmates.

Have two or three local businessmen come and interview with students observing businessman's checksheet.

Resc and Materials:

S: 1: Fair Community College Career Education Library

Local personnel director.

Evaluation: Businessman fills out checksheet on interview he gives students. Students complete checksheets on role playing for each other.

Comments on use:

14

Mary Lynn Fillinger Delta Russell Dorothy England



	Subject	Area(s)	La	ng	uage	Arts	
ų,		_				9	

Unit(a) Letter Writing

Objective(s): The student will learn the correct form for a business letter. The student will learn to fold a letter and address envelopes correctly.

Procedure:

Teach the six parts of a business let

Teach the information needed in . ette

inquiry.

Write a letter of inquiry for a summer job to a business or industry where the student would like to be employed.

Teach the correct way to fold the letter and address the envelope.

Fold the letter and address the envelope.

Resources and Materials:

Harcourt; Brace, English Grammar and Composition, and transparencie

Basic Language, Messages and Meaning, II, III, IV

Language for Daily Use, Harcourt, Brace, and World, p. 210-213

Evaluation: Teacher checks the letter for correct form, grammar, punctuation, and necessary information included in body. Teacher checks for correct folding of letter and addressing of envelope.

Comments on use:

Mary Lynn Fillinger Delta Russell Dorothy England

15

Subject	Area(s) English	
Unit(s)	Oral Speaking	

Objective(s): The student will become acquainted with a career in which he is interested and will receive practice in giving an oral presentation to improve his public speaking.

Procedure:

Present the methods and guidelines in preparing and giving oral presentations.

Discussion of different moosing a career of

n each student

Students interview a person in the area of their career or their interest area.

Preparation of speech from personal interview and research in library.

Presentation of speech.

Have class evaluate students in listening exercise using a prepared evaluation check-off sheet.

Resources and Materials:

Language for Daily Use, Harcourt, Brace and World, Unit 2: Speaking, Expressing Ideas

Basic Language Messages and Meanings, Chapter 4

Evaluation: Student evaluation sheets and discussion followin: speeches.



Subject	Area(s)_	English	1	
Unit (e)	Languag	e Arte (Interpretarion	-)

Objective(s): The student will be able to differentiate between a straight factual news story and an opinionated editorial.

Procedure:

Discuss elements that comprise a straight news story.

Students will locate examples of news stories in newspapers on front page.

Students identify the elements of a news story (who, what, when, why, and how).

Discuss inverted pyramid style of journalistic writing.

Teacher presents the elements and purposes of editorials (inform, educate, ague entertains).

Students locate an editorial char relates to a straight news story.

Students examine editorial - - - and purpose.

Students compare the editorial to the straight news story and separate fact from one ion.

Student takes a selected news story and writes an editoris on the story.

Students share with their a litorials with the class and compacts opinions.

Resources and Materials: Daily newspaper



Evaluation: Teacher reads and and uates the student written ditorial.

Comments on use:

Mary Lynn Fillinger Dorothy England Delta Russell

1 7

Subject	Area(s)	Mathematics	
Unit(:)	Advert	ising	

Objective(s): To help students recognize the deception that is used in advertising.

Procedure:

Have students bring magazine advertisements that are well-known today.

Discuss the different techniques used in advertising to capture the public's attention.

Resources and Macerials:

Typical Gyps and Frauds by Changing Times Education

Magazines

Evaluation: Have students decide if certain magazine advertisements are as truthful as they appear.

Comments on use: Television advertisements are also very helpful to use in addition to magazines.



Subject Area(s)	Mathematics	
Unit(s) Perce	nts and Decima	ls

Objective(s): Students can see how percentage is used in everyday situations.

Procedure:

Have a lesson on percent and decimal equivalents and on changing a percent to a decimal.

After students are familiar with the above problem, have them bring newspaper cutours of a sale where items are a certain percent off the cost. Using these as problems, let students find the reduced price of the item.

Resources and Materials: Newspapers

Evaluation: Give the students problems to see if they understand the use of percentage and how to find a percent of a number.



		ea(s) Mathematics	
•	Unit(s)	Metrics	
Objective(s): Students will become fami The student will gain experience in conv			g instruments.
	•		
•			·
Procedure:		Resources and Mate	erials:
Have students measure different items me discussion lesson later. They could als		Glas nor stems	
the from in meters, tentimeters, or in m		Masking tape	
Students could tape a metric stick to thuse for measuring the heighth of the stu		Meter rulers	
class.		Meter sticks	
	,	·	
	· •		
	•		÷
*	, ;		
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	•		•
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		•
			<u> </u>
Evaluation: Check the accuracy of the	information g	iven on student work	csheets.
	•		1

Commercis on use:

Subject	Area(s)_	Mathematics	
Desire	Metric	c	

Objective(s): To give a history of the metric system and why it is important for the United States to go metric.

Procedure:

Diagram of the importance of learning the Latin and Greek prefixes before beginning actually working with metrics.

Compare the number of nations using the metric system with those using our system.

Discuss trade with those nations on the metric system and confusion of conversion. Consmer the extra time and manpower used to convert these measures.

Resources and Materials: "Metrication for Americation for Americation for Americation for Americans and Materials: "Metrication for Americans and Materials." "Metrication for Metrication for Metrication for Metrication for Metrication for Metrication for Me

Evaluation: Use this film series as an introduction to the beginning of a metric lesson.

Subject Area(s) Mathematics
Unit(s) Area and Perimeter

Objective(s): To give students an understanding of plane for area. To give an understanding of the terminology geometry. (An opposite to use square units and cubic units.)

Procedure:

Discuss the following polygons:

- 1. square
- 5. trapezoid
- 2. parallelogram
- 6. pentagon
- 3. rectangle
- hexagon
- 4. triangle
- 8. octagon

Name the following figures.

- 1. front door
- 2. pastry board
- 3. baseball diamond
- 4. high school pennant
- 5. highway stop sign
- 6. a kit
- 7. gable end of a house
- 8. wheel of an automobile
- 9. diamond-shaped panes in church windows
- 10. gear wheels of a bicycle

Evaluation: Oral evaluation of the above terms.

Comments on use: Additional geometric terms could be introduced besides these given above. Example: circle, circumference, diameter, radius, pi, etc.

Resources and Materials:

shapes

Classroom examples of geometric

Geometric shapes or cutouts

Subject	Area(s) Mathematics
Unit(b)	Perimeter and Area

Objective(s): To reinforce and extend basic ideas and skills related to measuring length as it applies to finding the perimeter and area of polygons.

Procedure:

Have students find the area of the following polygons using practical situations as given below:

- 1... Rectangles and square--painting walls, ceilings, floors, replacing glass window panes, making curtains, photographs.
- 2. Parallelograms—sections of building with modern architectual design.
- 3. Trapezoid—tents, gables, lamp shades, sheet metal castings for machinery and tools.
- 4. Triangles--pennants, surfaces of triangular prisms, wings of model rockets.

Resources and Material::

Cardboard models

Prisms

Classroom:
windows
walls
desks
tiles in floor
ceiling

Evaluation: crade the worksheet to evaluate the student's ability to use the formulas correctly for finding areas.

Subject	Area(s)_	Math	nematics		
Unit(s)	Volume	and	Surface	Area	

Objective(s): The purpose of this unit is to present the concepts and formulas for finding surface area and volume of prisms, cones, cylinders, pyramids and rectangular solids.

Procedure:

Discussion of concepts on volume and surface area.

Student copy of formulas needed.

Practical application problems that might be used.

- 1. How many cubic feet does a block of ice 4' x 3" x 8" contain? (surface area also).
- 2. How much ice cream can be backed into a cone 2!' in diameter and $3!_2!'$ deep?
- 3. How many cubic feet of air are there in a coneshaped tent 20" diameter and 9' high?
- 4. How many cubic feet of dirt must be removed to make a cylindrical cistern 4' in diameter and 12' deep?
- 5. A stone pyramid has a rectangular base 15' by 12' and is 15' high. How many cubic feet does it contain?

Resources and Materials: Set of cubic blocks

Rectangular solids

Cylinders

Triangular prism

A cone

Rectangular pyramid

Evaluation: «

Comments on use: The surface area of the above items can also be found. Also in this unit could be introduced the following: cube and sphere.

2.4

Theresa Ford

Subject Area(s) Science

Unit(s) Chémical Reactions

Objective(s): The students will be able to describe the process used in industries for the production a common material found in the student's environment. The student will be able to write a letter of inquiry requesting materials. The student will be able to describe simple chemical reactions.

Procedure:

The students will list as many materials as they can that requires chemical reactions in their production.

The students will use two or three class periods talking about types of chemical reactions used in the production of materials common to the students.

The students will find as much material as they can on the production of one of the materials discussed in class. This will require research in the school dibrary.

The students will be provided with the addresses of industries producing the materials they choose.

The students will write letters requesting information on processes and chemical reactions used by the company. Letters should be approved by the reacher.

Each student will present the materials they acquired P.O. Box 62, Oak Ridge, TN 37830 to the class.

Resources and Materials:

American Iron & Steel Institute, Bedford Mills, NY 10507

American Society of Metals, 2238 Euclid Ave., Cleveland, OH 44115

Atlas Chemical Ind., Wilkington, DE 19899

Eastman Kodak Co., Roch Just, NY 14650

Freeport Sulfur Co., 161 E. 42nd St.; New York, NY

Reynolds Metals Co., 6601 W. Broad St., Richmond, VA 23218

U. S. Atomic Energy Commission,

Water Conditioning Foundation, 1202 Waukegan Rd., Glenview, IL 60025

Evaluation: Letter form used. Individual progress and report on reaction.

Comments on use: Students in physical science will be motivated by their interest in how various materials are made.

Clinton Waters



Subject	Area(s) Science	
Unit(s)	Career Awareness	

Objective(s): The student will be able to use resource material effectively to find information on careers in science related fields. The students will be able to list some of the science careers and select two or three that he is interested in.

Procedure:

Students will write a paragraph explaining their concept of a career.

Students will make a list of as many careers as they can think of that are related to science.

Students will choose three of the careers they listed and research each.

Students will use as many sources as they can.

Students will make a list of resources used in their inquiry.

Resources and Waterials:

Occupations and Careers
McGraw-Hill Book Co.

Teaching Children about Technology McKnight Publishing Co.

Introduction to Occupations,

Careers: Exploration and Decision

Exploring Careers in Industry McKnight

Evaluation: Individual projects along with resources used:

Comments on use: This activity is best suited for eighth and ninth grade. This age has probably not given any real consideration to choosing a career.

		•
Subject	Area(s)	Science
0,000	,	

Unit(s) Fopulation, Researching a 5:1entific
Problem

Objective(s): The student should: be able to distinguish between an open and a closed population; become familiar with the microscope as a tool for research; be able to interpret a graph indicating the growth and stability of a population; be able to interpret a graph indicating a change in a population and make certain generalizations about factors which cause the fluctuation on the graph; become familiar with the procedure used in investigating a scientific problem; be able to make a comparison between his research on a population and the process used by a research biologist.

Procedure:

Students should be divided into groups of 5 or 10, preferably 10. Using a grease pencil, number the tentest tubes for each team starting with 0 and ending with 9. These numbers will represent the number of days the population culture will be allowed to grow. The population studied will be a yeast culture. Yeasts are used for two reasons; first they reproduce rapidly providing a large number of individuals, second they are cheap and easy to care for and grow.

Ten milliliters of the sterile medium should be placed into each tube and the tube covered with foil. Each student should be assigned a test tube if 10 members, 2 tubes if 5 members. Students should put 10 drops of the yeast culture into their own test tubes and recover with foil as quickly as possible.

The person who is assigned tube 0 should then drop. 20 al of formalin into his tube thus preserving the yeast at 0 days. The remaining tubes should be incupated at 22°C in a dark place. On the next day, the student assigned tube I should add 20 drops of forwards to his tube. This should be repeated each day until all 10 tubes are fixed with the formalin. After adding the formalin without being told. This hould not require more than 4 to 6 minutes at the hopining of class. It will be necessary to fix two rubes during a weekend. It is best if the students label their tubes and have the teacher fix the

Resources and Material ::

Crease pencil, 10 test tubes, sterile medium, yeast alcare, formalin, aluminum foit, microscope slides, cover slips, microscopes, 15 test tubes for dillution, gradulated cylinder, 300 ml distilled water, bunsen burner

Preparation of steri! medium-1 cube beef bouillon, 20 grams sucrose, 25 ml of molasses, 500 ml of water-combine the above materials and heat almost to boiling. Filter the medium and place 10 ml in each test tube needed. Place the squares of aluminum foil over the test tubes and place in a beaker of boiling water for 15 minutes. Allow the tubes to cool before introducing the yeast culture.

Preparation of the yeast culture—2.3 grams dry yeast, 25 ml of distilled water—combine the yeast and the water. Stir until the yeast is well dissolved. Transfer 1 ml of this into 250 ml of distilled water. This will make a

Comments on use:

Evaluation:

Subject	Area(s)	Science	
17-31 (3)	Danu lati	: (•

Objective(s): The student should be able to predict population size at a future point by using rates of population determiners.

Procedure:

tubes during the weekend.

Students should be given another culture of the yeast so they can practice the process of dillution and counting. To make counts the students should work in pairs. This is to emphasize the importance of consistency in counts. Students should be told that a count of 75-125 is the best range of numbers to count. Each member of the team should make 4 counts by counting the number of yeasts visible in 4 different fields of the microscope. The second member should then make his counts using the same slide. After both have made their counts, each member should add his 4 counts together and divide by 4. If the average is tarther apart than the chart indicates both members should make their counts over.

	No. of Yeast per	Difference in the Two
	Average Count	Averages
~	,	·
	1 to 15	1
	•	
٠	16 to 30	3 *
-	31 to 45	5
		-
	46 to 74	77
ı		
	75 to 275	10
- 1		,

Resources and Materials:

0 day culture of about 15-20 yeast per count.

Ecology of Populations, Boughey, A.S., NY, Macmillan Co. 1968

Animal Populations, Browning, T.O., NY, Harper and Row Publishers, Inc., 1963

Biological Science, an Ecological Approach, BSCS, Rand McNally and Co., 1973

Ecology, Odum, E.P., NY, Holt Rinehart and Winston, Inc. 1963

Sourcebook for the Biological Sciences

Evaluation:

Comments on use: Yeast provide excellent characteristics for study. They are easy to see using a light microscope and reproduce rapidly. This activity will take about 15 days to complete, not counting the time for discussion on research careers. The amount of discussion will differ from one class to the next. Some of the problems that may arise are: Many students do not know what yeast look like. Students may not be able to use the microscope very good at first. Like any activity, there will be some students that will not read and follow the directions. Students may have problems under-



Subject	Area(s) Science
Unit(s)	Population (cont.)

Objective(s):

Procedure:

:

Dilutions should be explained carefull to students. Dilutions are made by using 9 ml of wa ar and 1 ml of the yeast culture. If the culture is still too populous then repeat the dilution. Each dilution is by a factor of 10. Original culture 1:1, 1st 1:10. 2nd 1:100, 3rd 1:1000. The students need one or two days for practice on counting and diluting their cultures.

The students should set up data tables so they can record each count, the average, and average multiplied by the dilution factor for each culture tube. Each pair of the team should supply the rest of the team with their data. Each student should plot their data on a graph with the average number of yeasts per field times the dilution factor on the vertical axis and the days incubated on the horizontal axis. The class should then prepare a class graph on a bulletin board. Each team should enter their data on the graph using a different color line for their team. This will make it easy for the class to compare data.

Discussion: It is important that you discuss factors which their decause fluctuation in the line of the graph. Some students will also have trouble understanding how to interpret the data. It is important that the activity and discussion on a career in biological casearch is started. It should be pointed out that this procedure is very similar to that used by a research biologist.

Besources and Macerial of

Evaluation: In using this activity, a teacher may at first become frustrated because there may be many small problems. Generally the activity gives students very good experience in researching a scientific problem, organizing data, using a microscope, working together as a group and interpreting data.

Comments on use: standing how to count the yeast and make dilutions. The teacher should explain this two or three times. Students should be told how to set up their data using a chart so it will be easy to compare with other data. It is important that students are lept working or the activity will bog down and the students will become uninterested. Advise students to keep the cultures covered to avoid contamination.

Subject Area(s) Science

Unit(a) Career Education in Science

Objective(s): The smudents will have reasons for learning out of the text. Students will be familiar with processes used in scientific related cameers.

[3

Procedure:

As the teacher goes a rough various units in science, Textbooks he should refer to intamtail, conservation, or any other career related to me topic. This gives the student an idea of career sopen in the field of agent, he science and at the same ime the students will greenhous become familiar with a untific processes.

Teachers should encoura a class discussion related to careers involved in science.

lesources l'aterials.

Textbooks
Professio science books
Local inc. tries, a tearvation
agent, hosp call, vectorunarian,
greenhous

Evaluation: Student evaluation is by choosing of a career in science when they graduate from school.

Comments on use: Should be used for all ages.

30

Climton Waters



Sinkert Area(s) Firsteal Science On L(s) Analysis c. Air for Carbon Dionade

Objective(s): The student will be able to perform the test of carbon dioxide. The students will become use list with other practices for $\frac{\partial s}{\partial t}$ ting air and waters.

·Frocedure:

Set up a test tube in a class and ag stand. Slant the tube at an angle of the transle with the open end up. Place the belief stopper in -- a 90° angle the tube. Place a glass tu through the stopper about . unit : another test end of the glass tube in the grams of tube filled with lime water gr (he and restopper. copper II carbonate in the Reat the copper (II) carbon a antil a change in color occurs. Carbon dioxid with abble through the lime water and form a white economic The white precipitate indicates the proper was COo.

Invite an inspector of seway setment into the class and have him discuss we a tract water is tested for various elements and appounds.

Invite an inspector from an interpretation survives the annual of pollution emitted by the plant into the mir. Discuss ways that the presence of certain pollutions are detected.

| Resources and Material ::

Ring stand, two test tubes, test tube clamps, copper (II) carbonate, 1 me water

lace the other | Local i spectors of sewage another test | treatment and industrial air grams of | pollution

Evaluation: Evaluate using lab technique and write-up.

Comments on use: This acti y a well adaptable for general science classes; biology classes and chemist: classes.

31

Clinton Waters



Subject Area(s) Physican

Unit(a) Temperature of a masem Bung or Melting Point or Alumin r

Objective(s): Studenty will be able to determine the amount of heart moduced by a binsen burner. Sinde in will be able to list ways that the melting it int of thetal orme are involved in the high cost of metals.

Procedure:

With a pair of tongs, hold a piece of aluminum wire in a bunsen burner. Have the students look up the melting point of aluminum and make observations of the wire in contact with the flame. Using the infor- Handbook of Come stry and mation about the melting point of aluminum, have the students determine the minimum temperature of the hottest part of the flame.

Have the students write a steel refinery and inquire about temperatures required for the processes and the amount of fuel used to make a given amount of steel.

Have a class discussion about commercial production of iron, copper and aluminum along with other metals that students bring up in class.

Resources and 1 Aluminum wirs, ' imsen burner

Chemistry Handhama, New York, Physics

Evaluati n: Students should be evaluated using their observation and a nadusion on the temperature of the burner flame.

1

Comments on use: This activity should be used with students at least in the minth grade. Younger students may not understand the industrial production of metals.

32

Series : on(s) General Scien

ogly of Meta s

Objective(s): It is not will be able to liss high restalling copper in a permagnesium is most a rive to least active. Idents will become familiar of magnesium is mos a tive to least active. processes used to industries which involve

divin of smals.

Procedure:

divide the solution equally among three beakers. Tammee nails, copper with In one solution, place a sanded nail. In the next solution, place a hard wrapped as tight as possible with a base copper wire. In the lest beaker, put a nail wrapped tightly with a piece of magnesium ribbon. Have the students observe these about three days. Most active metals will corrode first.

Plan a field trip to a local industry i lat uses metals in their production lines. Have the students make a l. : of chemi 2 reactions that involve metals the are used in the industry.

Fig. murces and Till

carnesium

Local manufacturer wash a metal reactions

Evaluation: Self-emaluation by ... erest levels of the individual.

Comments on use: This antivity may be used effectively in a number of units in chemistry or physical science.

33

Clinton Waters



Supject	Are (s Science		
Unit 3)	Equipment		

Of ective(s). To hand estudents learn the tames of imboratory equipment. The sudents will be a learn see the equipment in the lab. The students will have seen how these insurements are used in professional jobs.

Pr cedure:

Show the students and instrument used in the lab and have ther make and on of them and their uses.

have the student use the equipment by makin the surement; and hadding glassware with these and themps.

Arrange a field tris to a local hospital and have the staff show the students now they use the same instruments in their work along with more acvanced equipment.

When class returns to school, have them discuss the way some of the instruments in the hospital work and have them well which they thought was the most interesting.

Resources and Materials:

Dying tube, tongs, erlemmeyer flask, funnel, iron ring, beakers, wide-mouth bottle, wing top, ring stand, buret clamp, bunsen burner, watch glass, forceps, test tube, florence flask, test tube clamp, test tube brush, graduated cylinder, glass plate, buret

Evaluation: Evaluate by written test over uses and names of instruments.

Comments on use: This activity is good for any science class that is involved in laboratory activities.

Cell Transporm

O jecth a(s): The student will be able to escribe the process of diffusion chrough semi-permeable membrane. The studenth will a able to list dispasses that are presented by medication that is transported incorpout the body. The students will understand the (dua of transport against a low operation and fact.)

The second secon

Frocedure:

Set up a last tube in a stand using a clarp inar will hold the tube from enough to turn the tub upside down. Fill the tube with a so time trat is just basic enough. turn phenophtholens link. se a small square i payou and cover sie topo.

Hold wour finger of the paper and town to rest tube costice down. The pressure in the tube of 11 be equal to the pressure outside and the columnation will stay in the coll with the paper ther in mooth. Place a entenmener class of concentrated a ciuric acid under the test thee. Lower the est make 1/8 inch from the flash. as the acts diffuses through the paper, the solution will diange and pink solution to a colorless solution. The caper served as a semi-permeable membrana. The witter oramor, penetrate the paper but the and can "lifuse from the flask through the ape in the aution. Students should discuss office dape transport such me autive transformed and lidenia could make a I st of diseases and its use the way " asport -pathology we want the class of flacuss discrees end les ver

Restance and the eria state tube, 1 stand. pages solution concentrated RySOs tapens local punology as

valuation: Evaluate by wr. 18-up of a servetions on demonstration ... diffusion.

omments on user the product and high school statents will be forcinated by the characters of the solution

' Subject Arab(s) Chemistry

Unit : Production of Gases

Objective(s): The student will be able to prepare chlorume and study its properties. Students will become familiar with the process that professional chemists use in industrial processes.

Procedure:

Set up a ring stand. Elevate an erlenmeyer flask with a two hole stopper. Place a funnel through one hole until the stem is just above the bottom of the flack. In the second hole, place a glass tube that extends 1 cm into the flask. Use glass tubing as much as possible and set up 5 collection bottles with two hole stoppers in series with the glass rubing from the flask going to the bottom of the first bottle. The second hole will have a glass tube a control the bottle and this tube will connect to the second bottle in the same way tubing went into the first Settle. Repeat this until all 5 bottles are set up in a series. Half fill the last bottle with a sodium thiosulfate solution. Add 15 g of powders. managemess. dioxide to the flask and then pour 40 ml of commentrated hydrochloric acid through the funcel tube. Heat the flask very gently to avoid too rapid production of chlorine. One way to tell when the sottle contains Cl2 gas is by placing a white paper behind the bottle. The color will indicate if the has is present. When the bottles are full, remove the stopper and place a glass plate over the tork.

Masserials—ring stand, glass tuning, erlemmeyer flask, bomtles for collecting gas, mamganese dioxide, concentrated hydrochloide acid, litmus paper, red and blue cotton material, news prot

Add 20 ml of water to one bottle and quickur cover with glass. Shake hard and observe the color of the water. With another bottle test the effect of the gas on red and blue litmus paper. Test the effects of the gas on colored cotton cloth. With the amountale, place some news print in the bottle and see if the gas will bleach the print.

Evaluation: Evaluate on lab procedure and affect precautions used in the in aratory activity. Students should follow-up the activity with a discussion of warm that this process could be used in industries.

Comments on use: Caution should be used in this activity state chloring gas has a dangerous properties. This restricts the activity use to edvanced students.

Subject.	Area(S)	Biological	Science
	(-)		

Un util Caraers in Nursing

Objective(s): In become familiar with requirements on the nursing profession. Students will be a le to describe some of the disadvantages of the nursing profession.

Procedure:

Visit a local hospital and talk with nurses and nurses' aids. When students return to class, have a follow-up discussion by reviewing the information learned from the visit. If possible, have a professional nurse visit the class. Students will probably have more relevant questions at this time

Resonances and Maccrials.

Community hospital nurse

. Nursing home

Evaluation: Have students evaluate self-interest in profession.

Comments on use: This activity is probably more suited to girls that most boys.



Subject	Area(s) Biological Science
17 24 (-)	ConservationFarm Management

Objective(s): To give students first-hand experience at conservation practices on farms. Students will be able to make suggestions on improving conservation practices and not hindering from production.

Procedure:

Discuss some ways farmers conserve soil and protect animals.

Visit a local farm and talk with the farmer about what conservation means to him.

Students should ask about ways the farmer prevents soil erosion.

When students return to class they should discuss ways to increase the number of wild animals and improve farm production.

Students should evaluate the conservation practices used on the farm as poor, fair or good.

Resources and Materials:

Local farmers, conservation agent, conservation commission

Evaluation: Evaluate class reports of students and individual work on class activity.

Comments on use: Well adaptable for most age groups.



Subject	Area(s)	Scie	ence	
Unit(s)	Careers	in I	Denistry	

Objective(s): Students will become familiar with the dentistry profession and related occupations.

Procedure:

Visit a local dentist and have him tell the educational requirements, problems with the profession and advantages in the profession.

Discuss related occupations. Ask students to focus on the people involved in dental care-lab technicians, drug salesmen, equipment builders, false teeth makers.

Resources and Materials: Local dentist

Evaluation:

Comments on use:



Subject	Area(s)_	Physica	al Scie	ence .	
Unitial	Metall	urgy of	Iron		

Objective(s): To become familiar with the production of iron and steel. Students will be able to describe the chemical processes involved in purification of iron and the production of steel. Students will know the job opportunities in the steel and iron production.

Procedure:

Students will discuss building materials made of steel and iron.

Students will discuss castings and expense of steel parts for machinery such as farm equipment.

The class instructor should lear discussion on the chemical production and refuning of steel and iron. Discussion should include types of furnaces used in smelting processes.

The teacher should point out that large amounts of energy is required in the refineing process and this increases cost of production as prices of fuel increase.

Students should write letters and inquiry to steel and iron industries asking for information on jobs in the industry and processes used in the plant.

[Resources and Materials:

. Gardner-Denver Co., Quincy, IL

U. S. Steel

Modern Physical Science, Holt Rinehart and Winston

Modern Chemistry, Holt, Rinehart and Winston

Evaluation: Individual evaluation by interest.

Comments on use: Addresses for many of the steel and iron industries may be obtaine from Modern Physical Science and Modern Chemistry published by Holt, Rinehart and Winston.

4()



Subject	Area(s)	Biological	Science
Subject	Area(s)	Biological	Science

Unit(s)	Forestry
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Objective(s): Students will be able to identify many of the local trees. Students will be familiar with practices used by the forestry service. Students will be able to list job openings in forestry.

Procedure:

Discuss classification of the trees in the area which is walking distance from school.

Class will take a field trip to observe local trees and learn the common names of many varieties Students should make a list of the trees and record distinguishing characteristics of each tree type.

Invite a local forestry agent to visit the class to discuss ways that forest areas are managed.

Have the students make a list of jobs connected with the forestry service and post the list on the bulletin board.

Resources and Materials:

Local residence permission to show the class the trees in the area

Local forestry conservation agent

Research in school and local library

Missouri Conservation Commission, Jefferson City, MO 65101

Evaluation: Evaluate on common names of trees and research on jobs in forestry.

Comments on use: Students in junior high will enjoy the opportunity to get out of the school and walk around the community looking at trees. Many students at this age have decided to be conservation agents and this provides good opportunities to get a closer look at the profession.

41

Clinton Waters



Subject Area(s) Chemistry

Unit(s) Zinc and Its Properties

Objective(s): To become familiar with methods of research. Students will be able to list properties of zine and describe some chemical reactions involving zine.

Procedure:

Place one or two chunks of mossy zinc in a test tube containing 10 ml of dilute hydrochloric acid. Have the students make observations on the reaction. Test the gas evolved for hydrogen by placing a flaming splint in the tube. If there is a pop, this indicates the presence of hydrogen. Repeat this procedure only use dilute sodium hydroride in place of hydrochloric acid.

Sandpaper a piece of zinc and observe its physical properties. Bend the zinc to see how flexible it is. Using forceps, hold a small chunk of zinc in the outer edge of a burner and note the color change.

Discuss the industrial process of refining zinc and other chemical reactions using zinc in industries.

Resources and Materials:

Zinc, mossy
Dilute HC1
Dilute NaOH
Test tubes, sandpaper

Modern Chemistry, Metcalfe, Williams, and Castha, Holt, Rinehart and Winston, Inc.

Evaluation: Students can write this activity up as a lab and evaluation may be made on observations and organization of data.

Comments on use:



Cubinas	A / - \		
Subject	Area(s)	Biological	Sadanaa
~		DIOLOGICAL	perence

Unit(s) Conservati	noì
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Objective(s): To become familiar with job opportunities in conservation that does not require a four-year college degree. To be able to list jobs in conservation requiring a four-year degree. The students will be able to list types of conservation and describe the biological functions involved in conservation.

Procedure:

In class discuss the process of ecological balance and the pyramid of consumer levels.

Find out local conservation practices and list these on a bulletin board.

Have the students list conservation types, such as soil conservation, fish conservation, and water conservation.

Have the area conservation education coordinator visit the class and discuss the opportunities open to non-college graduates. The coordinator should discuss job openings and requirements of conservation agents.

The activity should be completed with a field trip to a conservation management area.

Resources and Materials:
Missouri conservationist
Missouri Conservation Commission
Local conservation agent
Nearest conservation manage—
ment area

Evaluation: Class self-evaluation and individual project.

Comments on use: Usually teachers will find that conservation agents will be pleased to have the opportunity to talk to students. Most junior high students interested in science would like this activity because they usually hope to be conservation agents in time.



Subject Area(s) Biological Science

Unit(s) Veterinarian

Objective(s): To learn about the profession of a veterinarian. Procedures and materials used by a veterinarian in animal care. The students will become familiar with the education requirements for the profession and learn the academic requirements.

Procedure:

Visit a local veterinarian and discuss the profession in terms of academic requirements and materials needed to set up a veterinarian office.

When students return to class discuss the problems that a veterinarian might have. Talk about animal treatment and the possibility of malpractice suits against veterinarians.

Have the students talk about experiences that they have had on farms with animals that veterinarians have worked with.

Resources and Materials:
Local veterinarian
Local farmers and students in
class that live on farms and
have seen veterinarians at
work

,

Evaluation: Evaluation may be made by having the students write a paper on the problems of a veterinarian.

Comments on use: This is a good activity for any age. Students in grades six through ten would probably like it most.



Suhj e c t	Area(s)_	Junior High	Science	
Unit(s)	Physic	al Science		·

Objective(s): The student will learn that the ignition system of a car is rather complex and that a person could specialize in just repairing and adjusting these parts.

Procedure:

Set up an operating car ignition system.

Resources and Material::

Old distributor, coil, battery, high voltage wire, and spark plugs

If you don't have these, some student will; and he or she can probably help set them up. An auto repairman or shop teacher if you need any help.

Evaluation: The students should learn how an ignition system works and something about how to adjust it.

Comments on use: Any auto mechanic can help and a trip to a good garage would be time well spent. The machines used today to analyze and adjust ignition systems could be demonstrated.

4:



Subject	Area(s)	Junior	High	Science
•				

Unit(~) Aviation/Mechanical

Objective(s): The student will learn that civil light aircraft must be inspected every 100 hours if used for instruction and every 12 months in any case. The student will learn that most major repair or alteration or any inspection for either 100 hour or annual must be done by a certified airframe and powerplant mechanic generally with inspection authorization.

Procedure:

The federal regulations covering 100 hour and annual inspections could be discussed. Here is a service that must be done by trained, licensed people. A very good presentation could be made by any local airframe and powerplant mechanic. Any private pilot could explain the procedure for repairs, inspection, etc.

Resources and Materials:

APR Federal Aviation Regulations and Airman's Information Manual \$4.95, available from Sporty's Pilot Shop, Clermont County Airport, Batavia, OH 45103

Local private or commercial pilor (he will have the above or its equivalent)

Evaluation: This would probably be used with any material on engines or airplanes. Without authorized, licensed mechanics, the airplanes are grounded. The student should understand this.

Comments on use: A visit to any airport will get a person all the free information and help needed.

4 6



Subject Area(s) Junior High Science

Unit(s) Weather/Aviation Use

Objective(s): The student will know that (a) weather is tremendously important to all aviation activities, (b) there are specialized sources for receiving this information which could offer career opportunities.

Procedure:

Study weather information services provided by the "Flight Service Stations," "Weather Bureau Airport Stations," and "Flight Advisory Weather Service." This can best be done by having a local pilot come in and talk about how important weather information is and how he obtains this information. If possible, take a trip to a "Flight Service Center" near your location which offers weather information. Any pilot will tell you where these are located.

Resources and Materials:

Book, Aviation Weather for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402, \$4.

Local private or commercial pilot

Any flight service station. Call any time for information at any major airport.

Evaluation: This would probably used with a unit on weather. Questions could be included on the unit test askin; why weather is so important and who supplies this information service.

Comments on use: Any pilot will be more than happy to help and names of people can be obtained by visiting any airport, especially one that offers flight instruction. Also, much free material (pamphlets, booklets, etc.) may be obtained for the asking.

Subject Area(s)	Junior Hig	gh Science
Unit(3) Electric	ity	

Objective(s): To repair a small electrical appliance so that the student will get an idea chat repairmen are needed.

Procedure:

Ask any class to bring you some small electrical appliance that is maken. An iron, toaster, coffee pot, heater, fan, etc. could be used. It really does not matter in you fix it or not, but you should be able to figure out what is wrong. No real skill or knowledge is needed here as the students will learn much just by trying to fix something. The teacher must know enough to not get hurt by the 120 volt line. He or she must use simple safety precautions.

Resources and Materials: Simple volt, ohm, meter (VOM)

Hand tools such as screwdrivers, pliers, soldering gun, etc.
These could be borrowed from the shop.

Evaluation: The student should learn how much can be saved by simple repair jobs.

Comments on use: A science teacher should be able to do simple electrical repair jobs. If you get a job that is too difficult or complex, just say so and don't attempt it. Try and pick something you have a chance of fixing.

48



Subject	Area(s) Junior High Science
Unit(s)	Electricity/Electronics

Objective(s). To stimulate interest in amateur radio (ham radio, not citizen's band).

Procedure:

Amateur radio is one of the best ways any person can become exposed to almost all phases of the broadcast and electronics world. The procedure is simple; contact the nearest amateur radio club or just a single ham, and he, she, or they will probably to the rest. The local radio station, electronics store, or civil defense organization will be glad to refer you to local amateurs (hams). Just tell the hams what you have in mind, and they will come to you with information, pamphlets, etc. They will probably invite interested people to club meetings or invite you and small groups of people to view their equipment in the classroom. They are generally friendly and quite happy to help.

Resources and Materials:
One or more hams

Evaluation: In general this activity will be done with a unit on electricity or electronics. Evaluation is judged by interest shown; anyone who becomes a ham knows a tremendous amount of practical information about electronics.

Comments on use: This activity depends upon how well you and the local amateur radio organization can work together.

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David Carson

Subject	Area(s)_	Yeast	
Unit(s)			

Objective(s):

The student will know that yeast is a microscopic, non-green plant used in bread and beer making. A discussion might follow about how many job opportunities are available in the baking and brewing industry.

Procedure:

Place some sugar or whatever into a jar (the amount is not critica. —say about 1/4 cup). Add water to fill and some dry bakers yeast. Let it size in a warm place for a few days. Some things you might want to do:

- a. Let the students smell the mixture right after adding the water and yeast and again at the end of the period. Could they smell the fermentation process at work?
- b. Watch for the tiny bubbles of CO2 given off. Explain that this is what makes bread dough rise. Better yet, get some bread dough and let them figure out how it rises.
- c. Take a yeast count everyday with a small sample and a microscope
- d. Try and figure out why yeast production stops alter a few days—add some more sugar. The alcohol inhibits further growth, but see if the students can figure it out. You might add a little of the old mixture as a fresh one containing only water and sugar to see it on the yeast stars growing.
- e. See if the student can find out ow the yeast are reproducing—this of course will take a microscope.
- f. Set out a mixture of sugar and water to see if there are "wild" yeast spores around to start fermentation without any help from the bakers least.
- g. After a few days, let the students taste the yeast, water, sugar mixture. There will be some alcohol there but not very much at all. Students will really want to taste this; emphasize that it's not beer or parent trouble may develop.
- h. Investigate the possibility of producing a food supply from yeast. How much yeast can you get from one culture, and how could the yeast be prepared or sold? Investigate food products containing yeast (if any) in your area.
- Investigate how yeast can break sugar down into CO2 and alcohol. This
 could be used to lead into a discussion of enzymes and their use in producing beer, especially the production and use of malt.
- j. Let some sweet corn or other seeds (barley for malt) germinate and then taste them to see if any starch has been broken down into sugar. <u>Caution—use only untreated seeds</u>, as many seeds for planting have been poisoned with a fungicide or pesticide.



- k. Try to produce some maltose from corn starch using germinated barley seeds as malt.
- Be sure and try to let the students look at the yeast cells with a microscope.

Resources at 1 Materials:

Bakers yeas: quart jars (or almost any clear container), water, some sugar, molasses, home y or almost any substance containing large amounts of sugar. If possible, a microscope with 200 to 400 power magnification.

Evaluation:

A teacher could do any part or all of these things. The student could then be tested for concept understanding. The main idea here is that yeast is a non-green plant and does need an external food supply for energy. Naturally other non-green fungi could be introduced at this time.

Comments on use:

Have fun: it's simple and easy to do.

51



Subject	Area(s) Topographic Maps	<u>;</u>
Unit(s)		

Objective(s):

The students will be able to use and interpret some of the information contained in a standard 1:24000, $7\frac{1}{2}$ minute topographic map.

Procedure:

This lesson should be more in the way of a unit. A teacher could go about as far as he or she wanted to in this depending on class interest and the teacher's personal feelings about map reading.

The students should be given some background information as to who makes and uses topographic map booklets from the Geological Survey Dept. Then a few simple topo maps could be drawn upon a chalkboard and the students could try and figure out what kind of shape they were looking at. The teacher should explain what a contour is and how these lines can be used to present information about the topography of the land. The scale of the map should be considered and distances between various points on the map may be measured. It works much better if a topo map from your own area is used. Handouts with a simple topo map could then be used to demonstrate slope and profile making. The students could then be given a standard (scale) topo map of their own area, and they could use these maps to calculate various distances between two points, finding highest and lowest elevations, profile along a given line, slope of streams, finding ciiffs and flat areas, best routes for future roads (powerlines, pipelines, etc.), best wildlife areas, and to simply become familiar with the land area of the map. The time spent here could vary tremendously; a teacher might spend a few days or several weeks investigating these maps. Many of the students will want to purchase a topo map of their particular area. The teacher might even want to use this as a moneymaking project. The maps cost 75¢ each and can easily be sold for \$1. Most students will want to visit a particular area on the map; a field trip or several field trips could be scheduled to visit particularly interesting topographic features. This lesson is very open ended; considerable math can be used in finding distance and slope, or a person could get involved in making topographic maps from raw elevation data, or producing a model from a topographic map. Almost any subject can be considered with a topo map in hand.

The teacher might also wish to get other scale maps, some showing water, mineral, timber or other resources. There are maps which will show almost anything a person wants. A teacher would spend months on this topic and continually introduce fresh, new material. A class might also wish to visit the place where modern topo maps are made and gain some understanding of the photographic, computer technology now in use.

Resources and Materials:

Topo maps--should have one each or one for every two students. Map reading booklet and symbols, U. S. Geological Survey, Washington, DC 20242 or obtain from Geological Survey, Box 133, Rolla, MO 65401 Rulers for every student--



Evaluation:

Give the students a topo map and ask that they do something with it. Let them measure distance, slope, and make a profile, find various topographic feature; and then draw conclusions about land use and possible means of minimizing ecological damage. The students should be able to use the maps as another tool.

Comments on use:

Seventh and eighth graders seem to like to play with maps, especially on a clean floor.



Subject Area(s) Population Density

Unit(s) Sampling - Junior High

Objective(s):

The student will be able to make a scientific estimate of a population in any given area.

Procedure:

The student will determine how many dandelions (clover plants, field sorrel, hawkweed, grass blades, crab grass, plants, daisies, etc.) are in his or her backyard. First they have to determine how they are going to sample (probably lay out several areas, take an average for a particular area, and then find the total area and multiply) and then try and figure out how best to go about this in their backyard. The teacher might want to just ask this question and give no instructions whatever, letting the students try on their own and then seeing what happens. The next day a discussion could show up both good and bad points about their methods. The students would then try again and see if they have better, more valid results. This idea of sampling will not be new to seventh or eighth graders, but they will have trouble trying to go out and do it. They will also probably have problems with trying to find area and then extrapolating the data to cover larger areas. Also advantages and disadvantages should be discussed. Valid sampling is highly dependent upon use of error minimizing techniques.

Resources and Materials: Meter stick (yard stick or tape measure) Backyard or cleared grassy area Some time after school

Evaluation:

Seventh and eighth graders have a good imagination, so for an evaluation say that they are a conservation employee and they have a limited budget to find the rabbit population of their county so that hunting seasons and bag limits can be set. Give them a time limit of plans needed to sample the population density of the rabbits. The students will probably want to think about it for a day or two and then write a paper during class on how they will gather this data. It should be fun. The teacher could set limits on money, equipment, manpower, and time limits if needed.

Comments on use:

The technique of sampling is used a tremendous amount; the students should have some idea as to how it works and its advantages and its disadvantages.

David Carson



•	Unit (5) <u>I</u>	nsect s	
Dbjective(s): Preparation of a report Tound at night.	ort on the nu	umber a	and type of insects that o	an be
	÷			
.*				
rocedure:			Resources and Materials:	
a student may go out at night and loside of leaves and flowers in his garee trunks to find insects. A light set up at night and various flying attracted to it. Also the reaction insects to light should be noted. Its for use in the early summer.	arden and on ht may also b insects will of various	be		
iscussion on nocturnal behavior of s. human beings.	insects			
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Evaluation:		·	-	
				*

David Carson

Subject A	rea(s) Junior High Science	_
Unit(s)_	Gelatin	

Objective(s): To find out how Jello is made.

Procedure:

Write a letter to the Jello Company: General Foods Corporation, White Plains, NY 10625. Ask them how they make Jello, where the gelatin comes from and how it is prepared.

Resources and Materials:

Evaluation: Most of the students will be very interested and surprised at the results. Jello is a fine product; but at first glance, its preparation may seem a bit repugnant.

Comments on use:

56

Subject Area(s) Junior High Science
Unit(s) Starch

Objective(s): To see what happens to potato starch grains when boiled. To understand nutritional elements of food.

Procedure:

Cut a very thin slice of raw potato and look at the starch grains under a microscope. Note their size and appearance. Have a student boil a potato and let them determine when it is done. Examine the boiled starch grains under the microscope. Note the difference. A discussion might follow on why its easier to digest cooked potato starch than raw starch grains.

Class discussion on importance of good nutrition for physical well being. How well does your family adhere to meeting seven basic foods requirements.

Resources and Materials

A container, water, and heat source suitable for boiling a potato

Home ec teacher
Discussion or materials on 7 basic foods

Evaluation: The student should be able to see the differences between the starch grains and know why cooked pot toes are easier to digest.

Comments on use: Bring salt and eat the cooked potato.



Subject	Area(s)	Junior	High	Science	
Unit(s)	Sugar				

Objective(s): To change table sugar (sucrose) to caramel.

Procedure:

Gently heat a little sugar until it melts. Continuously stir and add more sugar until a liquid amber mass results. This is hard to do without burning it; go slow and if the liquid becomes very dark brown or black, start over. If you heat it too strongly, it will also catch on fire; you have been warned. When all the sugar has changed into a smooth amber liquid, pour it out onto the foil spread over a flat surface—its very hot so use a formica desk or lab top desk. Let it cool. Break it up into small pieces and let the students each eat a bit.

Resources and Materials:

1 cup of sugar, 250 ml. beaker, a sheet of heavy tinfoil or aluminum foil, ringstand, ring, wire gauze, bunsen burner, and a long stirring rod You don't really need any of this; all you are going to do is gently heat a container of sugar.

Evaluation: A chemical change has taken place here and the sucrose has been converted by heat into semisweet caramel. The students should understand by direct participation that the caramel is no longer the same as the sucrose.

Comments on use:

Much enthusiasm will be created. Some will do this several times at home just to see if they can make caramel.



Subject	Area(s)	Junior High Science
Unit(s)	Molds	

Objective(s): To grow some bread mold from spores contained in the dust from the classroom.

Procedure:

Moisten two paper towels and place them in the bottom of the quart jar. Place some bread or rolls on top of the towels and then wipe a small moistened piece of the bread in the dust from a corner of the room, placing it in the jar also. Put a lid on the jar to prevent the bread from drying out. After some mold has formed, it can be examined under a microscope. I suppose its possible that there would be no mold spores in the dust, but this has never happened yet.

Resources and Material .

One quart jar and lid, bread or rolls (preferably homemade) and some water

Evaluation: The student should be able to identify major parts of a mold (mycelium, spore cases, spores, and filaments). The student should understand the function of these parts.

Comments on use: Someone will want to know if the bread can still be eaten. It can, but it might make someone mildly sick. The teacher might suggest that some mold be grown on cheese and then tasted to see if the flavor has improved.



Subject	Area(s)	Junior	High	Science
Unit(s)	Food Ca	lories		

Objective(s):

To show that food calories are a measure of heat (not temperature) produced when a food is burned.

Procedure:

Set the beaker of water on the stand, supported by the wire gauze on the ring over the small container of nuts. The nuts may rest on the metal base of the ring stand and the ring stand should be on an asbestos pad to prevent burning the desk. The nuts will have to be heated before they will burn by themselves, and this is best accomplished with a propane torch or bunsen burner. Try and take the temperature of the water just when the nuts start burning or take the temperature beforehand and then set the beaker on the ring stand just when the nuts start burning. The idea is to determine how many degrees temperature rise a known amount of nuts can raise a known amount of water (in this case 250 ml. of water). From this, the number of calories of heat the water absorbed can be calculated. Calories — (number of ml. of water) times (centigrade degree rise in temperature).

Resources and Materials:

A <u>small</u> metal pan full ot assorted shelled nuts, 250 ml. beaker of water, thermometer, ring stand, ring, wire gauze, a heavy asbestos pad, and a burner or torch. You don't really need any of this. The idea is just to burn the nuts and heat the water with the fire. Anyway to do it is all right.

Evaluation:

The student should be able to tell how food value is calculated and what a calorie is.

Comments on use:

Due to the many errors the teacher cannot say that the burning of the nuts supplied, a certain number of calories, but the teacher can say that so many carories of heat were absorbed by the water. If the food was dry, burned in pure oxygen, and no heat escaped anywhere else but into the water, then an exact determination of calories produced could be made. The objective is to show the student how heat can be measured and how food value is measured. A discussion of possible errors could be a subject in itself here. Some students will probably want to look up how a lab grade calorimeter is constructed. Also, the calorie used here (1 calorie is the amount of heat needed to raise the temperature of 1 gram (ml.) of water 1 centigrade degree) is not a food calorie. 1 food calorie is 1000 standard calories.



Subject Are	ea(s) Science
Unit(s)	
Objective(s): Proper utilization of the school nurse.	
Procedure: The School nurse should know a great deal more should than you do and also about health and medical careers. The nurse might be invited to speak on various subjects, such as:	Resources and Materials One school nurse
4. Various types of eye tests for color blindness and visual acuity	
c. How various tests such as the TB tests are administered and read	
d. Proper methods of giving artificial respiration	
e. Any sort of health oriented or medical occupation	
Evaluation:	

Comments on use: Anyone who can help you in the classroom should be at least consulted. The school nurse is a very valuable person. The teacher should use the nurse as a resource person for many different classroom activities.



Subject	Area(s)	Science
Unit(s)		

Objective(s): To obtain peanut oil from peanuts. To explore various use of peanut oil.

Procedure:

Grind up the peanuts and put them in a small jar. Cover them with carbon tetrachloride and let the mixture stand for ten minutes. Pour off the liquid into a small dish and let the carbon tetrachloride evaporate. **Caution: carbon tetrachloride is a poison; do not allow the liquid to evaporate in the classroom. Take it outside. Avoid any exposure to carbon tetrachloride.

The oil that remains after evaporation is peanut oil. The peanut oil may be tested to see if it burns and also to get an idea as to how much hear it will produce. Some idea of food value may be obtained in this manner. Do not eat any of this oil as some carbon tetrachloride may remain in it.

Discuss various uses of peanut oil in home and industry. Have students research other areas for possible current uses.

Resources and Materials:
Peanuts, carbon tetrachloride,
small dish and jar

Evaluation: The students should know what peanut oil is and how it may be obtained. This should give the students some insight as to why nuts have so many calories. The extraction of oil with a solvent is an important chemical process. How many other oils could be extracted in this way? How many people are engaged in, say, the production of corn oil?

Comments on use:

Subject Area(s)	Science	
Unit(s)		

Objective(s): To show that most seeds store at least a part of their food as star and that this starch is broken down to sugar when the seed germinates.

Procedure:

Place a few grains of corn or barley (other cereal grains will also work) on a section of paper towal and put it in a jar. Reep the towel moist until the seed germinates. Then chew up the seed to taste it. If there is a sweet taste, the starch has been broken down into sugar. Crush a seed that is not germinated and taste it to see if there is any difference.

Resources and Materials:

Corn or barley grain

**Caution--these seeds may be treated with a fungicide; check before using.

Paper towels

Evaluation: The student should be able to tell why starch is stored up in seeds rather than sugar and also why the starch is broken down (by enzymes) into sugar when the seed germinates. The student must understand that augar is water soluble and starch is not; therefore, the starch is trapped within the cell, but the sugar can dissolve and move out.

Comments on use: Students think this is lots of fun (especially tasting the seeds). This could also lead to discussions in the growing of grains and how more food value might be obtained in our grain.

63



Subject Area(s)	Science
Unit(s)	

Objective(s): To measure your lung capacity.

Procedure:

Fill the can with water and invert it into a sink or try partially filled with water so that the water contained in the can does not run out. Place one end of the tubing in the open mouth of the can under the surface of the water and have a student empty his lungs of air into the can. As air is forced into the can, the water runs out. The average seventh grader can almost empty a gallon can. Some air will naturally remain in the lungs so this is not an accurate test.

Resources and Materials:

A one gallon "AB Dick" duplicator fluid can or a gallon can with a small opening, a large tray or sink that will hold several gallons of water, and about three feet of small, flexible rubber tubing.

Evaluation: The students will all try to empty the can--girls generally have less lung capacity. If a record is kept, this may show up in the classroom.

Comments on use: It's more fun to use a glass jar rather than a gallon can, but they must be handled much more carefully.

ti 4



		Subject Area(s) Science	
	, t	Unit(s)	
Objective(s): exercise.	Determination of	of blood pressure and neart rate before and efter	

Procedure:

Ask the school nurse to come in and take the blood pressure and heart rate of, say, 4 or 5 students while at rest, and then let them exercise for a few minutes, taking the pulse and blood pressure again. Do this one student at a time.

Discuss need for physical check-ups to possible prevent heath problems.

Resources and Materia::
One school nurse with a sphygmometer

Evaluation: Encourage the students to ask the nurse questions about what blood pressure is, what is excessive BP or pulse rate, why exercise helps a person and questions in general about the heart and circulatory system.

Comments on use: If the teacher does this right, the nurse will teach a far better lesson than you can.



Subject Area(s)_	Science	
Unit(s)		

Objective(s): To measure the size of something within the field of view of a microscope.

Procedure:

Place the ruler under the microscope on its lowest power so that the width of the field of view can be measured. Have the students try this with higher magnifications (they can probably do it at 100x, but not at 400x). Calculate how far it is across the field of view at 40x, 100x, and 400x.

Resources and Materials:

One microscope (40, 100, and 400 power, if possible) and a metric system ruler

Evaluation: Let the students look at various things under the microscope and estimate their length and width by comparing with a known field of view.

Comments on use: So many times a student will look at something under a microscope and then say, "How small is it?" This lesson will at least let the student estimate the size of what they see under a microscope. Many people are engaged in the optic industry; a discussion of how microscopes work might also be appropriate.

Subject	Area(s)	Life	Science

Unit(s) Ecology

Objective(s): Students will learn about careers in the ecological field and about what private citizens can do to help make the jobs of these people easier.

Procedure:

Students will hear a talk from a local conservation agent concerning his job and problems associated with it.

Students will report to the class on pollution or other environmental problems which they have observed in their community.

Students will organize a clean-up project in their community and carry out the project in order to gain personal experience as to the magnitude of the pollution problem.

Students will develop and execute a plan for educating people or at least making the people of their community aware of the need for individuals to do their share to reduce the pollution problem.

Resources and Materials: Missouri State Conservation Department

Personal experience

Advertisements in local paper, posters, surveys

Evaluation:

Comments on use:



Subject Area(s) Life Science

Unit(s) Ecology

Objective(s): Students will understand the concept of "natural balance," or how all living things in a community are interrelated. Students will be familiar with man's influence on nature. Students will learn about changes within a community.

Procedure:

Students will read about and discuss the various relationships which exist, beneficial and harmful, within a wildlife community.

Students will read about successions in fallow-offields, on bare rock, in ponds, and in forests and will visit some of these areas to observe succession in various stages.

Students will learn about the exchange of vital gases (0_2CO_2) between plants and animals through the use of an experiment involving snails and green plants to produce gases, then testing with bromothymol blue solution.

Students will read about man's influence or his environment and report or discuss findings.

Students will do an exercise on the importance of predator control (birth rate of meadow mice and resulting population explosion without predators or disease).

Resources and Materials:
Exploring Life Science,
Thurber and Kilburn, Allyn
and Bacon Publishers, pp. 17-29

Textbook ~ local wildlife communities

Textbook - actual laboratory experiences

Textbook - local news mediaobservation

Teacher's hypothetical situation on blackboard

Evaluation:

Comments on use:

68

Roger Newell



Subject Area(s) Life Science

Unit(s) Careers in Life Science

Objective(s): Students will gain knowledge and understandings of careers related to life science; what careers are, in fact, related to life science and what these people do.

Procedure:

Students will read about the forestry-lumber industry and will view films concerning the wise use of forest resources and the people engaged in forestry.

Students will hear a talk by a local or nearby farm agent (MFA, Mo. Farmer's Coop, the University of Missouri Agriculture Department, etc.) concerning farming as a career and wise farming practices.

Resources and Materials:

Textbook, library resources, films from local libraries and Missouri Conservation
Department
University of Missouri Extension Services, MFA, Missouri Farmers Coop, NFO

Evaluation:

Comments on use;



Subject	Area(s)	Health
Unit(s)	Drug E	ducation

Objective(s): Students will become familiar with the various dependency-type substances commonly abused, their effects upon the human body, and the various ways in which the substances are abused. Students should be able to make an intelligent decision concerning their own use of these substances. (To use or not to use)

Procedure:

Students will conduct an indepth study of the Surgeon General's reports concerning cigarette smoking.

Students will try to find out more about the relationship between cigarette smoking and accidents.

Students will conduct a debate as to the pros and cons of smoking from the teenager's viewpoint.

Students will research a particular type of drug dependency and report to the class as though they actually were the dependent person.

Students will hold a panel discussion on the magnitude of the drug problem in their own geographical area and what can be done to help.

Students will hear a talk by local police or State Patrolman concerning drug abuse in their community or area.

Resources and Materials:

Copy of the Surgeon General's Reports

The National Safety Council, 425 N. Michigan Ave., Chicago, IL 60611; The American Insurance Institute, 85 John St., New York, NY 10038 Textbook, school library

Personal knowledge, talk with people in the community, talk with medical personnel, student surveys
Local police, State Highway
Patrol

Evaluation:

Comments on use:



Subject	Area(s)	Health	سيبي الوادي فمنحضاتها للجاد
Unit(s)	health	Careers -	Services

Objective(s): Students will gain an awareness of what people in the various healencareers actually do and some of the requirements of the health occupations.

Procedure:

Students will each select a health-related occupation research this occupation, and tell the class what is involved in being a physician, nurse, opthamologist, etc. as though they actually engage in this occupation. (Students may dress in the attire suitable to their particular occupation.)

Students will view films on health-related occupations.

Students will participate in panel discussions concerning the availability and cost of medical personnel and treatment in Benton County.

Students will tour the ambulance facility in their own vicinity, including a talk on the use of the various embulance equipment and ambulance procedures by a qualified ambulance operator.

Students will try to find out some of the methods presently being used in modern heart surgery and try to find out some of the heart-surgery techniques which are still experimental.

Students will find out all they can about quackery in order to project themselves and others from unsafe or useless "hedical" practices.

Studence will try to find out the specific educational qualifications necessary to become a psychiatrist and Evaluation:

Resources and Makerials "

Library, textboom, interviewed with people in health-related fields

State Fair Community College resource materials Department of Health films Missouri State Career Education resources Local hospitals, ambulance services, health-related personnel in the county Local ambulance service

The Heart Information Center, National Heart Institute, Betheada, MD 20014 - The American Medical Assoc., 535 N. Dearborn St., Chicago, II. 60610 - The American Heart Assoc., 44 E. 23rd St., New York, NY 10010 - The American Medical Association, 535 N. Dearborn St., Chicago, IL 60610 - The Food and Drug Admin.,

Comments on use.



Subject Area(s		(e)	
;	Unit(s)	Health Careers - Services, p. 2	
Objective(s):	· .		
Procedure: a clinical psychologist and the services by each.	provided	Resources and Materials: Washington, DC 20204	
Students will try to find out the basic p upon which the artificial widney operates also try to find out other uses for this	and	The American Psychology Assoc., 1200 17th St., Washington, DC 20036. The American Psych. Assoc., 1700 18th St., Washington, DC 20032. The National Institute of Mental Health, 5455 Wisconsin Ave. Chevy Chase, MD 20203. Kidney Disease Control Program, 4016 N. Fairfa Arlington, VA 22203. The American Medical Assoc.	
•	<i>;</i>		
Evaluation:			
Comments on use:	2 .		

bjective(s): To show how a genetic: traits might be.	ist can predict	to a degree what an animal's
		standing provide grow the control of
rocedure:	** ·	Regolit as an i Materials
Mark 2 squares of paper with the lett brown eyes and M for mother.	ter B for	Paper, scissors, pen or pen- dector, nurse, genericist
Mark 2 more squares with the letter beyond and $\overline{\Sigma}$ for father.	o for blue	Livestock farmer Biology text
Place both M squares and both F squarrepresent the 2 genes for eye color is mother and the father.	res together to in both the	
Move one M square and the other F squand place them side by side.	are down	
Ask livestock farmer to explain to the breeding procedures in reference to be for desirable traits in reference to production, beef sales, etc.	reeding	
$\mathcal{N}^{\mathcal{M}}$		



rments on ere:

Subject Area(s) Life Science

Unit(s) Plants: Interdependence

Objective(s): To show how a conservation agent can help improve fishing in lakes and ponds.

Procedure:

Fill each of the 6 in. test tubes 3/4 full of water.

Into test tubes #1 and #2 place one small snail and some algae.

Into #3 put only some algae.

In #4 put only one small snail.

Place a cork in each test tube.

Place test tubes #1, #3, and #4 where sunlight cannot reach it.

After 2 days, begin checking each test tube and record what is happening. Continue checking for 5 days.

Invite ecologist and/or conservation agent to explain other types of imbalance relationships that cause pollution.

Resources and Materials:

4 each 6 in. test tubes marked #1, #2, #3 and #4

6 corks snails algae dark place sunlight ecologist conservation agent

Evaluation: Describe and explain what happened in each of the test tubes. Why do both the snail and algae survive when together in a test tube exposed to the sun?

ក្រុះ	Unit(s)	Plants	
Objective(s): To see why farmers nee	d to use ferti]	lizers.	
,			
Procedure:		Resources and Materi	al.:
In a small pot plant a tomato seed in weight of soil.	a known	Seeds, pot, soil, we scales	ater,
Allow the plant to grow the tomatoes ready to eat.	ripe and		
Very carefully remove the plant from Retain as much soil as possible.	the soil.	}	
Very carefully weigh the soil.			
	J		
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Comments on use:

Very careful measurement of weight is required.



Subjec t	Area(s) Life Science
Unit(s)	Plants

Objective(s): To show why some farmers need to irrigate their crops.

Procedure:

Half fill a 6 inch test tube with water.

Half fill a 500 ml beaker with water and add a few drops of red ink to the water.

Cover the test tube with sausage skin and secure it with a rubber band.

Turn the test tube upside down into the beaker of water and ink.

After 1 hour check the color of the water in the test tube.

Resources and Materials:

6 inch test tube 500 ml beaker

sausage skip rubber band red ink eye dropper

Evaluation: The student should be able to explain how the ink got into the test tube. The student should be able to explain how nutrients get into plants.

Comments on use:



Subject	Area(s)I	ife	Sciences	
Unit(s)	Properties	of	water	

Objective(s): To show the student how ice cream is made.

To show the student the relationship between ice and salt when it is used as coolant.

Procedure:

Select an fce cream recipe and follow its directions.

Place the container with the liquid ice cream inside into the ice cream freezer and start the motor or begin the cranking.

Fill 1/4 of the freezer around the container with crushed ice, add a very thin layer of salt.
Alternate ice and salt until freezer is full.

Add ice and salt as needed until the motor stops or becomes too hard to crank.

Store or eat the ice cream.

Resources and Materials:

Ice cream recipe and gredients
Freezer, salt, ice, power
source

Evaluation: The student will be able to explain why the salt is added to the ice.

Comments on use:

Subject	Area(s)_	Life Science
Unit(e)	Micro	organisms

Objective(s): To show one way that man can preserve food for future use.

Procedure:

Resources and Materials:

Place a small piece of bread in each of 4 sterilized baby food jars.

Moisten each piece of bread and put the lids on tight.

Take jar #1 to the kitchen area, open it, walk around the kitchen and put the lid back on.

Take jar #2 to the locker room, open it, walk around the locker room, and put the lid back on.

Open jar #3 in the classroom, walk around and put the lid back on.

Do not open jar #4.

Place, all four jars in a warm dark place. Check for mold in 2 days and then every day for 5 days.

4 baby food jars with lids marked #1, #2, #3, and #4 Bread, water, eye dropper

Evaluation:

The student should be able to explain why mold grows on the bread in the jars. The student should be able to explain why the amounts of and color of mold is not the same.



Subject Area(s) Life Science
Unities Properties of Water

Objective(s): To show how a water plant operator can test water. To show students how water aids plant growtn.

Procedure:

Fill one clean, dry pyrex beaker with tap water; One with pond water; and one with rain water.

Boil the water in each beaker until all the water is gone.

Observe the beakers after they cool.

Discuss what was left in the beakers and explain why.

Discuss relationship of water chemical content to plant growth.

Resources and Materials:

3 beakers, tap water, bond water, rain water, heat source

Evaluation: Students should be able to explain why sediment was left in the beakers. Students should be able to explain why this property of water can aid plant growth.

Comments on use:

79



	ea(s) Life Science Microorganisms n be used to process food.
Procedure: Use a standard bread recipe to make bread. Observe what happens when the recipe says to "cover the dough and let it rise." Invite baker or home economy teacher to the class	Resources and Materials: Standard bread recipe and ingredients Oven A baker or home economy teacher
to explain uses of yeast.	

Evaluation: The student should be able to explain what is happening when the bread rises. The student should be able to explain what the yeast (mold) does to the sugar.

Comments on use:

80



Subject	Area(s) Life Science
Unit(s)	Microorganisms

Objective(s): To show how a laboratory technician can collect and grow bacterial cultures for study.

Procedure:

Using the prepared agar plates, collect bacteria in #1 by removing the cover and rubbing your finger across the surface of the agar.

Collect bacteria in #2 by using a cotton swab to run on the inside of your mouth and then on the surface of the agar.

Collect bacteria in #3 by dipping a sterile wire loop in pond water and rubbing it across the surface of the agar.

Place the agar plates in a warm dark place for 24 hours.

Resources and Maccriality

Texthook, lab mechanic to 3 prepared agar, platter marked #1, #2, & #3 Wire loop, sterile cotton assets

Evaluation:

The student should explain why the agar is needed to grow bacteria. The student should be able to list at least 5 places to collect bacteria.

Comments on use:

81



Subject A	Area(s)_	Life	Science	· · · · · · · · · · · · · · · · · · ·	·
Unit(s)	Micro	organi	Lsm s _		

Objective(s): To show how a laboratory assistant can prepare a nutrient for growing bacteria.

Procedure:

Mix together in a pan:

l pint cold water

5 beef boullion cubes

1/4 tsp. salt

1/4 tsp. soda

1/4 oz. gelatin

Boil gently until mixture is clear.

Sterilize 12 petri dishes by boiling.

Pour the hot nurrient into the petri dishes, cover immediately and allow to cool.

Resources and Materials:

12 petri dishes
5 boullion cubes
salt
soda
gelatin
water
heat source
pan
measuring spoons
scales

Evaluation:

Students should be able to explain why the beef boullion cubes and the gelatin are used.

Students should be able to tell why the petri dishes need to be sterilized.



Subject	Area(s)	Life	Science	
Unit(3)	Microo	rgani	sms	

Objective(s):

To show students how microscopes are used to see very small things.

Procedure:

Mount a specimen on a slide.

Place the slide on the microscope stage.

*. Turn the mirror so that light passes through the specimen and into the lenses.

Look into the eye piece and turn the coarse adjustment until a fairly clear picture is seen.

Sharpen the picture with the fine adjustment.

Resources and Materia

Microscope, light source, slides, specimens

Evaluation:

Students should be able to demonstrate efficient operation of a microscope. Students should be able to explain the importance of correctly using a microscope.

Subject	Area(s)	Life Science
Unit(s)	Cells	

Objective(s): To show how a laboratory assistant prepares a slide for study.

Procedure:

Cut an onion into quarters. Separate several layers from one quarter of the onion. Select an inner layer and peel off a piece of the inner skin with a pair of tweezers. Place the small piece of skin on a clean slide. Place a drop of water on the onion skin on the slide. Add a drop of iodine to the skin and water. Place the slide on the microscope stage and observe the "skin."

Resources and Materials:

Onion, knife, slide, microscope. tweezers, water, iodine, eye dropper

Eyaluation:

The student should be able to state we the iodine is added.

The student should be able to find the nucleus, cell wall, incividual onion cells.

Comments on use:

81

United Circulation

Objective(s): To show how a nurse or laboratory technicism can tell your bloc.
 type

Procedure:

Draw two circles on a clean dry slide and label one circle Anti-A and the other Anti-S.

Place a drop of liquid from the bottle marked Anti-A in the Anti-A circle and do the same for the Anti-B circle.

Prick your finger with a lancet.

Use a toothpick to place a drop of blood into the Ankl-A circle.

Use another toothpick to place a drop of blood in the Anci-B circle.

If your blood clumps in Anti-A, you have Type A. If your blood clumps in Anti-E, you have Type B. blood. If it clumps in both, you have Type AB and if it does not clump at all, you have Type O.

Resembled and Materia of

Evaluation:

The student should be able to predict what would happen if Type A blood was mixed with Type AB blood.

Comments on use:

85

Parent permission should be obtained.



Subject Area(s) Life Science

Unit(s) Circulation

Objective(s):

To show one way a doctor can tell if you are in good physical shape.

Procedure:

While sitting, take your pulse in your wrist for one minute, wait one minute and take it again; do this one more time and make an average.

Hop on one foot fifty times and take your pulse immediately for one minute. Rest one minute and take your pulse again. Do this until the pulse rate is fairly constant.

Resources and Materials: Watch with a second hand

Evaluation:

Students should be able to explain why the pulse rate is high after exercise.

Students should be able to explain, why the pulse rate begins to size or become lower after exercise.

Comments on use:



	ct Arca(") Life Science
, Únit (Respiration
ective(s).	
show how a coach can rell if his athletes ar	s getting in shape.
	•
ocedure:	Associaces and Material
ount how many simes you exhale in one minute in	
esting position. Do this three times and make verage.	an ;
$oldsymbol{x}_{a}$ the length of a football field and count $oldsymbol{t}$	ha .
umber of times you exhale in one minute immedia	
fterward. Do this three times and wait one inute before each count. Find the average.	
ind out how long it pakes to get back to your	
esting breathing rate.	!
	4 . /
- ···	
•	
•	· · ·
eluation:	
tudents will be able to tell why the breathing tudent should be able to tell why more oxygen; esting.	
omments on use:	

Subject	Area(s)	Life Science
Unit(s)	Nervous	System

Оbj	ect	ive	e(s):
-----	-----	-----	-----	----

To show how a boxer can defend himself against being hit every time.

Procedure:

Have your partner sit on a table or chair high enough that his feet do not touch the floor.

Place a blindfold over his eyes.

-Tap your partner gently just below the kneecap with a rubber mallet.

Have your partner clap his hands as you strike his knee with the mallet.

Observe the reaction.

Resources and Malerials:

Table or chair, rubber mallet, blindfold

Evaluation:

Students should be able to explain why the clasp occured after the knee jerked. Students should be able to show how reflexes help animals to survive.

Comments on use:





Subject	Area(s)_	Life	Science	
Unit(a)	Nutrit	ion		

Objective(s):

To show one way man can preserve food for future use.

Frocedure:

Weigh the grapes; wash them in water and blot dry.

Remove the graps from the stems and spread evenly on a tray.

Place a screen or cloth over the grapes.

Flace the tray in direct sunlight to dry.

Check for dryness after four days. If not dry, wait one more day.

When dry, weigh the grapes and place in a glass container for storage.

Discuss the need for preserving food stuff for all members of the ecologic system. Examples: squirrels, human beings, rats, etc.

Resources and Materia? Grapes, water, tray, screen or cloth, scales and sunlight

Evaluation:

The students should be able to explain what happened to the grapes and why raisins weigh less than grapes.

The students should be able to suggest methods of preserving other foods.

Comments on use:



Subje	ct Area(s	Life Science	
Unit(s) Aqua	tic Ecosystem	

Objective(s):

The student will be able to explain why fishermen fish at a certain depth.

Procedure:

Fill one quart jar with cold water and the other with hot water. Place a few drops of food color in each of the small bottles. In one, place hot water; in the other, place cold water; and put the caps on. Explain what happens when the bottle of cold water is placed in the jar of hot water and the cap is carefully removed. Explain what happens when the bottle of hot water is placed in the jar of cold water and the cap carefully removed.

Have students draw a diagram of a shallow lake that has, a cold system flowing into it.

Discuss implications of fresh water ecology and fresh water foods.

Resources and Matinials:

Two wide mouth quart jars, two small bottles with caps, food color, eye dropper and heat source

Evaluation:

The students shou! be able to conclude that the plants and animals differ at different depth.

The students show the able to diagram what happens when a cold system flows into a shallow lake.

Comments on use:

90



Subject Acea(s) Life Science

Unit(s)

Environments

Objective(s).

To show how ecologists study the effects of temperature change on living things.

Procedure:

Draw a circle on the floor and place a frog in the circle. Genciy touch the frog with the sponge to make it move. After ten seconds, measure in or the distance the frog moved. Do this two more times and make an average. Fill the bowl with water and ice. Place the frog in it for five seconds. immediately place the frog in the circle and cause it to move. Measure in cm the distance the frog moved after ten seconds. Do this two more times and make the average.

Discuss life cycles in all animals.

Compare the cycle relationship to human activities and lifestyles.

Resources and Materials:

Frog, water, ice, chalk, sponge, meter stick, bowl and weach with a second hand

Evaluation:

The student should be able to explain what happens to frogs in winter. The student should be able to tell how this might help explain the disappearance of many species of reptiles and amphibians.

Subject Ar	ea(s) Lire Science
Unit(s)	Conservation
bjective(s): To show how farmers can control erosion in their fienced for societal agriculture needs.	lds. To show students the
rocedure:	Resources and Materials:
Place sand on a long board or in a long box lined with plastic. Tile the board or box so that water may flow easily into a drain or large container. Spread the sand evenly and slowly pour water on the sand. Explain what happens. Mark circular grooves in the sand and slowly pour the water on the sand. Explain what happens.	Sand, board or box, water, a drain or large container, soil conservation agent
Discuss the implications of poor soil conservation on food supplies of the notion.	
·	

Evaluation:

The student will explain how contour farming can benefit the farmer. The student will draw conclusions on the food production and supply on farms where erosion is not controlled.



Subject Area(s) Social Studies

Unit(s) History - U. S. Constitution.

Objective(s): The student should understand the issues and feelings evident in the Constitutional Convention. The student will participate in the lawmaking process as in Article I.

Procedure:

A mock Constitutional Convention—Assign each student to research one person present at the Convention.

During the mock convention, the student will represent that person, his state's views, etc. when discussing the basic issues.

A mock Congress-Divide the class into 4 (2 House and 2 Senate) Congressional Committees. Each committee reviews a bill then submits it to the House (or Leaate) floor. The process continues through the Fresident and the possibility of an overridden veto.

Each student will compose a notebook of newspaper clippings illustrating different parts, qualifications, and procedures found in the Constitution. Each clipping should have that section underlined with an explanation of how that illustrates a Constitution principle. The Arcicle in which that principle or fact is found should also be indicated. If possible, have a alternation as guest speaker to discuss how his incovedge of history is important in contemporary newspaper writing.

Discher est confront bills under consideration ... Congress that students might be interested in.

Resources and Materials:
Foundations of Freedom, pp.
194-204

Article I of the U.S. Constitution

Newspaper, paper, glue

Evaluation: .

Critique notebook!

Comments on use:



Subject Area(s) <u>Social Studies</u>
Unit(s) <u>Geography - European</u>

Objective(s): The student can examine the European influences in America and individuals' lives.

Procedure:

Examine s U. S. map. Note all the Spanish and French names found for rivers, cities, etc.

Using foreign language records, illustrate the differences in languages and forms of communication in other countries.

Discuss the opportunities as a translator or interpreter for a person who is bi- or multilingual.

Resources and Materials:

Foreign language records

Evaluation:

Comments on use:

Subject	Area(s)	Social	Studies	
•	• •			

Unit(s) History - American Revolution

Objective(s): The students should discover the influences the Americans during the revolution and how they can still see these influences today with different subject matter.

Procedure:

Examine scale of the Revolutionary slogans and sayings. That a contemporary slogan or saying.

Examine the use of propaganda in the Revolutionary War. List the contemporary examples of propaganda in commercials, advertisements, political literature, etc.

Sketch an example of propaganda trying to influence someone to buy a product, vote for a candidate, etc.

Illustrate that every situation can be understood in different perspectives.

Write two newspaper articles. One found in an American newspaper describing the Boston Massacre; the other for a British newspaper describing the Boston Riot.

Resources and Materials: Foundations of Freedom, pp. 124-125

Foundations of Freedom, pp. 132-130

Mania America, pp. 72-75 Foundations of Freedom, pp. 135-136

Evaluation:

Comments on use: .

u 1



Subject Area(s) Social Studies

Unit(s) Geography - European

Objective(s): The student recognizes the similarities and differences between European and American cultures, resources and environments.

#Procedure:

The student will write a letter to a friend in the U. S. as if he were one of the Norweigians described in the text. The latter should include description of his occupation, family, lifestyle, etc.

Provide examples of the different types of currency found in Europe. Have the students complete exercises on how to exchange money from one country's currency to another.

Discuss the procedures and problems of international banking.

If possible, have a banker knowledgeable on the the subject of international banking visit the class.

Resources and Materials: Living as World Neighbors, pp. 130-135

Local banker

Evaluation:

Comments on use:

0 .

Phyllis Donnelly



Subject Area(s) Social Studies

Unit(s) Geography - United States

Objective(s): The student will have a general idea how environment affects lifestyles. The student will be able to identify the locations and reasons for various resource, industrial and fare centers in the U.S.

Procedure:

As an eskimo, how many different uses can you list for all parts of the seal.

Have the students indicate the major rivers and cities on a U. S. map. Then have them glue on representations in the proper places for the various resources, productions, crops, etc.

The students should write a short composition on where they would choose to live considering their occupations, the lifestyles, the climate, the environment, recreation possibilities, etc.

Resources and Materials: Living as World Neighbore pp. 14-17

Maps, glue, popcorn, cotton, small steel nails, small plant charcoal pieces, toothpicks (lumber), rice, sugar cubes, rubber bands, play coins (U.S. mints), ex-

Evaluation:

Commerts on use:

Subject Area(s) Social Studies
Unit(s) History - American Indian

Objective(s): The student will recognize the various social systems of American Indians.

Procedure:

Sketch a family totem pole.

Compare this social system to others of interest. Examples: American, British, some African tribes, China, etc.

Discuss how social systems influence lifestyles.

Have students describe the social system of their town.

Resources and Materials:

Foundations of Freedom, pp. 33-39

Evaluation:

Comments on use:

98

93

Phyllis Donnelly



Subject Area(s)	Social Studies
Unit(s) Geogra	phy

Objective(s): The student will discover lifestyles in the United States different from their own.

Procedure:

After reading the selections on migrant workers and the Vietnamese teens, the student will write a letter to an imaginary friend as if he were one of these people. The subject of the letter should reveal feelings about this type of lifestyle.

Resources and Materials:
"Migrants No More," Realists
Digest, pp. 98-102, July 1975

"World Cultures: Vietnamese Teens Tell Their Stories," Search Magazine, pp. 14-16, September 9, 1975

Evaluation:

Subj	ect A	rea(s)	Social	Studies	
Unit	(s) _	History	– Amer	ica	

Objective(s): The student will discover the components that influence the size, crops, etc. of farms.

Procedure:

Sketch plans of the three different farm systems found along the Atlantic Coast - New England subsistence farming, Middle Atlantic - commercial farming, and the Southern plantation system.

Discuss how this type of farming influenced working habits, social class, and individual aspirations.

Resources and Materials: The Foundations of Freedom, pp. 87-88

Evaluation:

Comments on use:

Subject	Area(s)_	Social	Studies	 ,	
Unit(s)	Geogra	phy			

Objective(s): The student will have an opportunity to plan a trip to some location in the United States at least 400 miles from his home.

Procedure:

The student will choose a location to visit at least 400 miles from home. The student will map out an automobile route to that city. If possible, the Chamber of Commerce of that location should be contacted. The student should present the places to visit enroute and at the destination. A possible budget for the trip will also be figured plus a list of clothing and recreational equipment appropriate for the area will be compiled.

Resources and Materials:

Road maps, addresses of Chambers of Commerce

Evaluation:

Comments on use:

• .	Subjec	t Area(s) <u>Social Studies</u>
	Unit(s) Geography
Objective Forld rela	-	phies and lifestyles of variou
•		
Procedure	er en	Resources and Materials:
eligions liscussin Example of the Brahma	tudents will do further research on world . These students will compromise a panel g the characteristics of each religion. f participants could be a Hindu of an caste, a Hindu of the Untouchable Hebrew from Israel, a Moslem from Egypt, a	Current reference materials
hristian	from Beirut, Lebanon, a Christian and m the U.S., a Catholic and Protestant	
	mplications of religious beliefs on s, value systems, etc.	
·		
		·
	•	1

Comments on use:

Subject Area (2) Social Studies

Unit() History

Objective(s). The student will study the effect that the stock market has on individuals and the nation.

Procedures

Discuss the causes and results of the stock market crash of 1929. Provide a simulated stock market game. Let each student "buy" \$5,000 worth of stocks. Every other day, let the students read the stock reports in the newspaper to record the progress of their stocks.

Invite a stock broker to class to discuss stocks and the feasibility of another crash.

Reg alles att Materials.

Newspapers with the stock exchange

Evaluation:



f_{ij}		0 -4-1 55	e
	•	rea(r) Social St World Geography	nores +
Objective(s): To give the student furthe text. To give students an opportunity. The student will recognize television newsbroadcast.	rther study of (tunity to formul	China using source Late and organize	a gronb,
Procedure:		Teachyons 351 %	Cocylsiy
The students divide themselves into three to five. They are responsible		Maps, current m	agazines
senting various aspects of China in newspaper or newsbroadcast manner. tions should include current and his weather reports, commercials, etc.	either a The presenta-	· · · · · · · · · · · · · · · · · · ·	
After the presentations, feast on an Chinese fortune cookies.	d enjoy some	Fortune cookies	
•			
			·
Evaluation:			

Phyllis Donnelly

Comments on use:

10 i

Subject Arma(a) Social Studies	
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Unit(s)	History
	4400047

Objective(s): The students will analyze the affect that the wildcat banks of the 1830's had in causing the Panic of 1837. The students will discover components of the present bank system.

Precedure:

Discuss land speculation, worthless money, wildcat banks, the Panic of 1837, and depression.

Analyze what to look for in opening a saving or checking account today. Discuss the difference between borrowing money for land speculation in 1830 and taking out a loan today.

elorulius ar i Mirerda's

Foundations of Freedom
United States History to 1877
pages 301-302

Evaluation:

โลกสอกประเทศ แลก:

105

Phyllis Donnelly

Subject	Area(s)	Social	Studies	
Poit(-)			Ĺ	•

Objective(s): The student will discover different inventions, their effect on America, and the patent procedure.

Procedures

Discuss the effects the Industrial Revolution inventions had on the United States. Ask the students what they think has been the most important invention yet?. What would they invent if they could? Analyze the patent procedure and the reasons for it.

Have students invent a product on paper and apply for a patient.

Foundations of Freedom
U. S. History to 1877, pp.
285-290

Evaluation:

Comments in use:

105

Phyllis Donnelly

FOREWORD

- Career education at the secondary level strives to develop the relationship between academic studies and life outside of school, to help each student to personally identify a desired life role, and to make possible the preparation necessary for fulfilling that life role.

There is no set "career education program" to be adopted by all school systems. Rather career education is a concept to be adapted to the needs of each community, each school system.

Nowhere in this guide is there a definition of career education. So many definitions have been developed that any individual can search for—and find—the one that suits his/her purposes. The activities, ideas, and suggestions herein do reflect the concept as it has been understood and implemented by the contributors.

Our goal in preparing and compiling these materials is to provide an idea bank. You as an educator can select those suggestions that could be easily integrated into your curriculum and enhance its value for your equations.

Different contributors have approached this goal with various methods. Briefly stated activity suggestions comprise the bulk of the material. Flease browse through the materials to find ideas that might be integrated with your on-going curriculum. Don't limit yourself to only one subject area--you may find an idea from another discipline that you can use with only all adjustments.

We hope you sujoy the guide and would be happy to hear any comments you see on it

Phyllia B. Stuerke Secondary Specialist Career Education Project State Fair Community Coilege Sedalia, MO 65301



Subject a	Area(s)	General Business
linit(s)	Careers	er Landauer

Objective(s):

The student will recognize herself/himself in terms of her/his feelings--both negative and positive--and her/his ambitions without clouding the picture with society's terms.

Procedure:

A paper is assigned of one to two pages in length. In this paper, the student is to describe herself/himself in terms of her/his feelings and ambitions. She/he is not to use terms as female, black, old, intelligent, single. These are words that society assigns. The assignment is to dig deep and look at what's inside.

Resources and Materials:

Evaluation:

By removing society's terms, the student can evaluate his feelings and ambitions. Trom this evaluation, he can better see what career he wishes to pursue.

Comments on use:

Besides helping the student, the teacher becomes enlightened as to some secret feelings. This always aids when helping students with their problems.

108

Martha Vilelle

Subject-	Area(s)_	General	Business	
Unit(s)	Careers		্ত ক	

Objective(s): The student will answer some questions about his life and his career.

. Procedure:

s and Materials.

This booklet offered by the Institute of Life Insu- A Date With Your Future, Educarance, takes a walk through the student's future including career, marriage, children, education, Life Insurance shopping skills, and insurance. The students are asked questions such as "What do you think is the ideal family/size?" and "Why do you think a man usually earns more than a woman?" You may follow the sequence of subjects suggested in the book, plus adding your own personal experiences.

tion Services, Institute of

Evaluation: There is a checklist in the back of the book for them to fill out to check for understanding.

Comments on use: I thought this booklet was very good. Many of the questions asked in the booklet led to interesting discussion, and the students seemed to do some real thinking about their "future."

109

Martha Vilelle

Subject Area(s) General Business

Unit(s) Business Communication

100

Objective(s): The students will write an effective letter of application.

Procedure:

Discuss items needed in a letter of application—chapter 54, textbook.

Prepare transparencies of various letters of application. Show these in class and point out why one is more effective than another--good points and bad points.

Discuss what statements might "turn a prospective employer off."

Have students make a rough draft of a letter, for themselves. Proofread these with them and give suggestions.

Prepare final copy of letter--preferably typewritten with \underline{no} errors.

Take the final copies to the school superintendent and have him make criticisms of them.

aterials:

General siness for Economic Understanding, Southwestern

Typing paper
Transparencies
Superintendent or local businessman to read the letters and make
criticisms

Evaluation: Evaluate the students upon the letter--how neat, complete, concise, and courteous.

Comments on use:

110

Martha Vilelle

Subject	Area(s)	Business	Law	· · · · · · · · · · · · · · · · · · ·
Unices)	Contrac	ts	arangan ang atao .	

Objective(s): Students will make rulings on cases presented to him using laws studied in contract unit.

Procedure:

Appoint a prosecuting attorney, defense and judge.

ney, Applied Business Law

chem

Give a copy of a case to each person an time to research it.

Cases concerning contracts

Resources and Macerials:

Begin the court session with the prosecution presenting its case first, then, the def_{e} nse.

Have the judge rule upon the case.

Let each student have an opportunity to be either an attorney or judge with different cases.

Evaluation: Evaluate the students upon their presentation of the cases or ruling.

Comments on use:

1 1

Subject	Area(s) Busi	ness Law
		•••
Unit(s)	Anaurance	

Objective(s): To expose the class more effectively to insurance and how it works by having an insurange agent speak to the class on the different types of insurance.

Procedure:

The students will read and study chapter 34 on "Nature of Insurance." This chr = discussed before the agent com he class.

An insurance agent will come to speak to the class on the different types of insurance.

After the agent finishes his discussion, there will be time for a question/answer session for the class.

Resources and Materials:
Applied Business Law

MFA Insurance Agent

Evaluation:

The guest speaker allowed the students to get an outside and updated wiew on the types of different insurance publicies. The class will be able to use the information that was received to better understand the following insurance material

Comments on use:

Worked quite well. The class got some updated information that they wouldn't have received from their text. 1.12

Subject	Area(s) Business Law	
Unii(s)	Court System	

Objective(s):

The students will be able to actually see a court in session and how the july is picked, the lawyers defend their clients and the duties of the judge.

Procedure:

Have students read and study chapter 6 on "The Court System." Discuss this chapter before the field trip to the court house.

When the students arrive at the court house, Judge Barker briefs the students on the case they will be seeing and how the court system works.

The students will actually sit in on the court case and hear the pleadings of the court verdict.

The students will prepare a result the case they saw in court.

Resources and daterial at

Applied Business Law

Judge Charles Barker

Evaluation:

Each review will be evaluate

instructor by using a cnec sheet.

Comments on use:
Worked quite well for me. The process enjoyed seeing what we had talked about in action. Seemed to be an excellent learning experience.

Shawn Miller



Subject	Area(s)_	Business	Law
	Court	Svatem	

Objective(s):

The students will be exposed to how the court house and its offices are set up and what offices are in the court system on the county level.

Procedure:

The students will read and study chapter 6 on "The Court System." This chapter will be discussed before the field trip to the court house.

The class will visit each office in the court house.

Each court office has a person who explains the duties and functions of each court office.

Resources and Materials:

Applied Business Law

Visit such offices as county clerk, county recorder, assessor, circuit court

Evaluation:

The students have to identify each court office and the person who holds the office.

The duties and functions of each should also be known. Can also ask questions such as "What office should you go to for . . . (hunting and fishing permits, filing deeds, etc.)?" This is shown on a quiz given to the students.

Comments on use:

This plan worked very well in my class. The students enjoyed visiting each office and learning their functions first-hand.

114

Shawn Miller

Dritis All Units

Objective(s): •
Each student will be able to work problems to a quicker rate with greater acousary.

Procedute:

The students are given problems (one at a time) on the board or orally by the teacher. Each student is to work the problem as quickly as possible obtaining a correct answer. When a student finishes the problem, he raises his hand and tells the answer. If correct he doesn't have to do any more speed drills that day. Only three guesses are accepted. The last one to finish the drill has extra problems due for the next day.

Evaluation:

Comments on use:

Have used this in my math class. Seems to work good im developing speed in working problems.

115



•		ode jede III	ea(s) Shorthand	
		Unit(3)	Careers in the Office	
Objective(s): The men, with different	The students will ent types of inte	 l take dictation (of	fice style) from local busin	ness-
Procedure:			Resour	
	secretary's chai	oom with boss's desk		ıs
Have boss (local hand students. T shorthand student situation.	he boss will die	red off with short- tate a letter to a real office		
Have the boss dic be various interr	tate several let	ters. There will hone rings, some-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	÷.
one at the door,	etc.			
one at the door, / Students will tra	etc. enscribe letters.			:
one at the door, / Students will tra	etc. enscribe letters.			<i>;</i>
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Evaluation: Eva	etc. Inscribe letters. Indle various int	erruptions.	ation in the discussion of	how
one at the door, Students will tra Discuss how to ha	etc. Inscribe letters. Indle various int	erruptions.	ation in the discussion of	how

Martha Vilelle



hay a mark (a) mark harrie

the convers in the Office

Objective(s): The students will see a secretary doing her routine work in the cities.

rocedu.

Begin by considering what would be routine jobs that a secretary must do daily. Are these important; if so, why?

Show the film "The Working World of a Secretary," which describes the basic office practices and procedures which as memos, mail and the telephone.

Arrange r the students to go in pairs to spend a morning -12 a.m.) with local secretaries. Have them kee r diary of all work done.

Return t class with flaries Piscuss these. Consider he questions: "Is this a career for me?". "Do I wast to do this type of work?"

File: "The orking Western Secretary" - Eye Gate

Evaluate the class by their participation in the discussion.

Commercial Commercial

Subject Area(s) Shorthand

Unit(3) Careers in the Office

Objective(s): Students will determine secretary and what training can le

Ills are needed to relegal so tills.

Procedure:

Spend at least one morning with a local legal secretary. Have the students keep a diary of what a is done in the office.

As a guest speaker, have a local lawyer speak to the students on what he expects of his secretary. Have a question and answer session.

As a guest speaker, have a representative of a college with a developed business program present to the students what classes are required to be a legal secretary. Have a question and answer session.

Resources and Materials:

A local legal secretary for the students to observe in her work

A local lawyer to speak to the students

A college respresentative to present programs offered to become a legal secretary

Evaluation: Quiz the students upon the skills reeded to be a legal secretary.

Comments on use:

Subject Area(...

Walt(s) Business Letters

Objective(s): The student should be able to compose and type correctly a business letter.

Procedure:

Discuss in class the various parts that can be used | Sample letter will be proin a business letter. Students should be able to identify these different parts and their proper placement.

Student should type at least two business letters that vary in form and content. These should be handed in to the instructor.

vided by the teacher to show proper form and content

Use: Attention line Subject line Reference bine Blind carbon copy Hand printed lettering at

Evaluation: Instructor will evaluate each letter and record the best garde for -each student:

Comments on use: This has not be used yet in my class.

119

Shawn Miller



Subject	Area(s)	English	 	 	
Unit of	Grammar		 		

Objective(s): To make students aware of the misuse of grammar in written and s_i den language, thus, becoming aware of their own efforts in correct speaking and writing.

Procedure:

Regear, on and Marerial:

Grammar Notebook

Students are to keep a daily journal of mistakes they see and hear in everyday language.

- 1. The exact quote
- 2. The quote corrected
- 3. If possible, the situation and who said it (the quote)
- 4. This is sometimes more beneficial if students listen and read for specific mistakes (ex. verb-sub-ject agreement, dangeling modifiers, sentence fragments, etc.).

Evaluation: The journal should continue from one to two weeks. Graded on number of entries, neatness, accuracy of corrections.

Comments on use:



Subject	Area(s) Freshman English	
Unit(s)	Grammar	

Objective(s): To learn parts of speech and/or parts of a sentence.

Procedure:

Baseball Grammar

Divide class into two teams.

Each team selects a pitcher and coach.

The pitcher asks a question to each batter.

Batter has 15 seconds to answer question.

- a. If batter does not answer, he has struck out.
- b. If batter answers wrong:
 - 1. The batter is out.
 - 2. If a runner is on base, he may attempt to answer the question.
 - a. If the runner on answers correctly, he and all runners advance one base (as in a sacrifice fly).
 - b. If he answers wrong, he is considered thrown out trying to advance on a fly ball.
- c. If batter answers correctly:
 - 1. All runners advance one base.
 - After reaching first base, runner has option of answering an additional question.
 - a. If he correctly answers additional question, he advances another base (as in a double).
 - b. If he is wrong, runners remain, the hitter is thrown out trying to reach second.
- d. Before each pitch, the lead runner on base may attempt a steal by telling the pitcher he wants to answer instead of the batter.

Resources and Materials: Plain English Workbook

Evaluation:

Comments on use:

Subject	Area(s)	Freshman	English	
			•	
Unit(s)	Grammar	, cont.		

Objective(s):

Procedure:

Resources and Materials:

- 1. If he answers wrong, he is out.
- 2. If he answers correctly, he advances one base.
- e. Teacher acts as umpire and time keeper.
- f. Hits, runs, stolen bases may be counted as extra credit.

Evaluation: This worked very well in reviewing for a test.

Comments on use: It is best to simulate many of the rules of baseball for the sake of excitement. However, if the game becomes too complicated, the students become too "bogged" down in rules instead of reviewing.

122



Subject Area(s) English	
Unit(s) Language Study	

Objective(s) fo learn the use and definition of "reports," "inference, and "judgment."

Procedure:

Students divide into groups of 4 to 7 members.

They select a product which they will sell in competition with another company.

Name products and company (ex. Chevrolet, Impala).

treate packaging, a slogan, magazine ads, and a i minute TV commercial (videotape if possible).

A board of investors will view a presentation of each group's ad campaign and will invest accordingly.

The company that sells its product to the investors may be awarded actual credit or extra credit.

Discuss techniques employed by each group.

Evaluation:

Resources and Materials:

Dynamics of Language, first chapter

<

Comments on use: Investors may be persons (teachers) from outside the class to insure objectivity. Evaluation sheets are filled out by the investors citing strengths and weaknesses of each group's presentation.

123

Rod Cameron

Subject	Area(s)_	English	
Unit(s)	Langua	ge Study	

Objective(s): To learn how the connotations, sounds, and implications of words influence mood in descriptive writing.

Procedure:

Students form a circle (15-25 is best).

Each is instructed to title a piece of paper with some scene they wish to describe (ex. haunted house, sinking ship, snow storm).

Then, each student writes one descriptive, mood setting sentence about that scene.

Each paper is passed around to each other person in the class and each one of them adds a mood-setting detail.

Afterwards a discussion over which scene was most effectively developed is valuable.

Resources and Materials:

Dynamics of Language "The Artist's Angle" unit

Evaluation:

Comments on use: Students should be encouraged not to depend on elements of plot to make their scenes interesting.

124

Rod Cameron



	Subject A:	rea(s) Novels	(modern)			
	Unit(s)R	leading trends				
Objective(s): To become aware of reading trends with environment of students. Develop awareness of popular books, reading tastes and reading emphasis within community.						
rocedure:		Resources and	Materials:			
tudents decide on a series of questions in ey to be answered by students, faculty, community.	f rasur					
he questions should be guided toward disc astes, quantity and quality of reading.	covering					
			•			
	·					
		-				
		} 	. /			
	÷		-			
	·		·:			
	•					
,	,					
		1				

Comments on use:

125

Subject	Area(s)_	3 Englis	a ·	
-	"			
	-			
Unit(s	Literati	ure		

Objective's): To improve meading comprehension. To make literatume more enjoyable. To improve self-image.

Procedure:

questions arise, divide Lass into four groups.

stribute work sheets (story tudy sheets). Let
idents record grades on many is as they complete
rk. Have a test every fifth chapter. Allow
time to build King Arthur's latte. Students are
held responsible for abstracting information on
what castle looks like. Give bonus of 10 percent
to the group with the best scores on the test.

Resources and Mondails:

Copies of A CT .kee in Fing Arthur's Court

Building material for a castle

Sets of story-: dy sheets

Chart on bulletin board to record students' grades

Evaluation: Multiple choice test every fifth chapter. Multiple choice vocabulary test every fifth chapter. Working together.

Comments on use: Using this scale: 60% for I, 70% for M, 80% for S, 90% for E, a low class achieved the following: 1/3--S's, 1/3--M's, 1/3--I's.

126

Meredith Case



Subject	Area(s)_	Englis	Modern	hovel.	
Unic(a)	Reviewe	_	•	-	

Objective(s): To understand a discuss the use of literary to an inues and the strengths and weaknesses of large noise.

Procedure:

Select and read novels.

Read several book reviews and see the mem.

After class lectures and discuss and divelopment of literary technique in modern to end ite. character development, plot development, theme, style). Students write to the novels they have read. In doing this, were to use the professionally written reviews a excurses.

Resources and Materials:

Newspapers at a magazines that the include book reviews

Any novel selected by the student to read.
Use of selected stories from The Fractured Image and Life Force for discussion of each aspect of literary technique (plot, character, setting, theme, style).
Use one story to emphasize each aspect.

Evaluation:

Comments on use:



Subjec Area(s) English

Unit(s) Novel--The Red Badge

Objective(s): To help the students understand the symbolism, theme, course orization and content of The Rei Backe of Courage. To study the court system.

Procedure:

Class discussions on symbols, theme and characters in the novel.

Student-lead discussions on "what is courage" or "what is the purpose of war."

Create in the classroom a trial of Henry Fleming. Although this trial does not appear in the novel, you use the characters in the book to create the trial. Appoint two conflicting personalities as defending and prosecuting attorneys. Give them two or three days to prepare their cases. Assign students to the parts of Henry Fleming, the tall soldier, the loud soldier, the tattered soldier, and Henry's mother. You may expand on small characters such as the farm girl and Henry's girlfriend at home. Have the attorneys work with the witnesses. Assign certain witnesses to work with each attorney. Such as--Prosecution--the tattered soldier, the tall soldier and the farm girl. Defense--Henry's mother, the loud soldier, Henry's girlfriend and Henry Fleming. Assign students to the roles of jury, judge and various roles in a courtroom. Give them two days to research courtroom procedures. The students must stick to the facts in the novel, but some of the characters may be expanded. They can't change the novel, but they can add to it. Go through the trial and let the jury make their own decisions.

Resources and Mater:

The Red Badge of Court a by
Stephen Crane

Evaluation:

Comments on use: Students seemed to enjoy the novel much more when they were personally involved.

Sub - Co Area (s . English

Unit

Great we Writing

Objective(s): To let to the process of preparit publication.

and sending a manuscript for

Procedure:

Notes on spacing and typing a manuscript for publica Friter's Market tion are given, using the Writer's Market as a source.

Basic Laws of Copyright are covered. The terms for what rights to sell are covered, (i.e., all rights, first serial rights, second serial rights, reprint rights, simultaneous rights, public domain).

How to properly address an envelope is discussed.

After a student has written, them neatly typed his manuscript, he selects a market to send it to along with a SASE.

All possible markets are discussed briefly, students are instructed to read magazines before submitting to them.

and Materials.

Evaluation:

Comments on use:

129

Su	-2 -	. rea(s)_	Eng	lish		
Ur	_ (.	Short	Scory	Wri	ing	

Resources and Materials:

Copies of teacher-prepared pro-

enort story in ten easy sceps.

cedure book--how to write a

Object we(s): under Lamb he short story. To revelop the ability to write a short story.

Procedura:

I develop a proce are borders for each student with thep-by-ster instructions and space to complete each ster. This problet is used after we have read and discussed several short storis Since each step as evaluated in teacher and puptible lost feeling that often accompanies the assignment to write a short story does not develop.

The first step is a memory probabilities at the student lists at rong memories—either incidents or people—that have had special significance. Each memory is described. The student is them asked to isolate the feelings are clated with the time remembered These feelings are listed in a separate column.

Students then share the incidents and feelings they have written about and working together, there in on something that much form the basis of a good short story.

Other steps include reveloping a beautining dent and a climax, creating a theme, developing much (The students to disclaim from the beginning incident to the climax and then empend one laurer.)

Each first drawk as attended using a prior code to indicate proof one simp accuracy membanics, economy, wordiness, semiamors, or managraphing. (Some get proofty colors all. A fellow southent also corrects each paper.

After writing a second train and reading and correcting for theme and plot a final dmait is written.

Evaluation: Each sterms evaluated by teacher and pupil. Final product is evaluated by teacher.

Comments on se:

Excellent

130

Meredith Case



Sur et Area(s) English

Unit (a Crying Out for Disting

Object: e(s)

o stary the shell of the contage stade it in the shell property. nd pt said. To one of a ading skills.

Procedure:

Assign short stories to be read such as: "Trials at Salem" by Stephen Windert Benet; "Under the Labe"s Paw," by Hamlin Garland: "Testimony of Trees" by Jesse Stuart and "The Lottery" by Shirley J. okson.

Have the students act out the one-act play "The Lottery" them stage a real lottery in which no one knows who will draw the black dot. After one student has drawn the black dot -- have the other students decide now to kill this person, we discussion about how the person fell should fo low.

Resources and Meter 13.

Evaluat a.:

Comments on use:

131



Subject Ax	rea(s) English
Unic(3)	Poett
Objective(s): To understand the nature of postry.	To appreliane poetry.
vii.	
Procedure:	Resource and Materials:
Read ten poems of different types aloud.	Ten selemmed poems 30 copies teacher-prepared hand
Distribute handbooks"What is Poetry."	book, "What is Poetry" con- taining information about poetr
Class discussion based on ten poems and handbords.	poen wit space to complete each
Write first draft of poems.	step.
Have "buddy" correct.	
Write second draft.	
Have teacher correct.	
Read to class.	
Class comment.	
Submit best poems to National Scholastic contes	1
·	
	25 000
Evaluation: Check poetry for scanning. analyze poetry.	beatth upp stret draft greet or Book
Comments on use: Very successful. Ten entries so Two students participated in original poetry contes	ubmitted to National Scholastic.

شداد ال

Merchath Case



burties Incroduction

Objective(s): Assesse personal values in terms of subject area (journalism).

Procedure:

Make a list of your individual values that arise from your basic human needs as related to journalism.

Explain how each of these needs can be meet in journalism by you, by the instructor and by the class.

Resources and Materials'

Paper Pen Silence Concentration

Evaluation: Make a chart relating your individual values arising from basic human need. Explain how these needs can be met by you, the class, the instructor.

Comments on use: Excellent result from standpoint of relating class to self and setting personal objectives.

133

Meredith Case



Subject Area(s) English II

Unit(s) Novel--Newspaper writing

Objective(s): To help the student understand the different types of newspaper writing using Silas Marner as a source material.

Procedure:

Divide the class into groups appointing an "editor" for each group.

Divide the novel into sections according to the time elements involved and assign the sections to the groups.

Spend time studying the different parts of the newspaper, the style of writing, advertising techniques and any other things you find to be relevant.

Have the groups decide what they wish to include in their papers. The editor will delegate tesponsibilities as to the writing and producing of the paper. All material will be centered around the specific facts of <u>Silas Marner</u> and of England during that period in history.

Resources and Materials:

Silas Marner by George Eliot Newspapers Material on how the newspaper is written Resource material on England during the period in question

Evaluation: The group's final copies of their paper should show their understanding of newspaper writing.

Comments on use:

134

Mary Lee Cornell



Subject	Area(a)	Eng	glish
Unit(s)	Reading	the	Newspaper

Objective(s):

To improve reading skills. To acquaint students with the newspaper. To interest students in reading.

Procedure:

Give each student a newspaper. Assign different articles to different students. After reading the articles, have students meet in groups of four or five and discuss their articles. After a week or so of reading the paper every day, the students can attempt writing their own newspaper.

Resources and Materials:

Evaluation:

Comments on use:

135



Subj	٥t	Area(s) English/Bus.	Communications
Unit n	5.)	Selling	

Objective(s): To help students become more above of the techniques used in the field of advertising.

Procedure:

Discuss things that turn buyers on and lings that turn buyers off. Have students indicate what advertisements appeal to them and which these do not. Point out techniques involved.

Have each student develop a new product and them work up a sales promotion packet for his product.

Each packet should include:

- (1) A newspaper or magazine ad
- (2) An ad for class: ied section of exampler
- (3) A sales promition letter
- (4) A 60-second radio or TV commercial
- (5) One other form of advertisement. This could be a billboard, a demonstration, a display (floor or window), or any other type that might be appropriate for the product.

Resources and Materials:

Example of different types of advertising. (Can be brought in by the students)

Evaluation:

Comments on use:

138

Mary Lee Cornell

Sobtect	Area(s)	EnglishBusiness	Соши
oubject.			

`Unit(&) Telephone Usage

Objective(s): To help students understand proper telephone techniques in the world of business.

Procedure:

Teach basic techniques called for in telephone usage. Could record correct and incorrect procedures for illustration. Show filmstrip if available.

Have each student compose a message to be recorded by person answering phone.

Draw or assign partners. Using the teletrainer, have each pair of students record/each others message. It is important that they not read the message before hand.

Resources and Materials:

Teletrainer kit (can be reserved with the Bell Telephone Co.)

otioa

Mimeographed copy of a form for recording a telephone message

Filmstrip from Office Worker.
Series, Interpretive Education
entitled "Using the Telephone"
(KT JRSR CE8 State Fair
Community College)

Evaluation: During the conversation, evaluate the techniques utilized. Staple your comments with the recorded message and the original message for final evaluation.

Comments on use:

137

Marý Lee Cornell



Subject Ar	rea(s) Speech		
3		?	
Unit(s)	Introduction		

Objective(s): To develop the ability to use the telephone with ease and poise and to communicate in this manner more accurately.

Procedure:

Draw for partners.

Call a friend for information--perhaps to get an assignment.

Call for directions--perhaps how to get to the park.

Call to ask for a date.

Call in answer to a classified ad (teacher might write ad on board).

Resources and Materials:

Two dummy phones

Evaluation:

Was objective achieved?

Was question expressed clearly to receiver?

Was information clearly communicated?

Comments on use:

Class enjoyed it and grew easy in each other's presence.

138

Meredith Case



Unit(s) Small Group Communication

Objectives:

To teach students how to work within a group. To give students a more tolerant sttitude toward others' opinions and respect their values though they be -different from their own. To develop listening skills.

Activities:

Seat students in a circle and begin a round-robin series of self-introductions. The first person introduces himself, spells his last name and gives one fact about himself. The next person must then give all the facts about the passon before him before he introduces himself. Continue this process until every member can pronounce and spell the name of every other member of the group and relate a fact about each other. After this task is accomplished, a discussion topic should be assigned to the group. Each group should select someone to taken notes on the discussion. Every member must contribute to the discussion at least once on each of the questions to be answered. Each student should write a short report on the discussion.

Have each student write a telegram to another person within the circle containing a message that they think that person would like to hear. After a few minutes telegrams should be collected and passed out to the people for whom the, were intended. No one should know who sent the telegrams. The discussion would go around the circle with each person reading his messages and commenting on them with the rest of the class giving their comments also. Discussion: How well does the person sending the telegram know you?

Assign homework project: Students are to think about and then write down their values and where they acquired these values -- family, friends, church, and society. Upon class meeting, each student in turn would explain his values and discuss them. A discussion to follow might be: (1) How are your values different from those of your parents? (2) How are your values similar to those of your parents? (3) Who influences you the most on what you value?

Hand out moon survival situation. The group is to come to a consensus on the order of importance of the items. The order must be agreed upon by each member before it becomes part of the group decision. Consensus will be difficult to reach. Try as a group, to make each ranking one with which all group members can at least partially agree.

Guidelines:

- 1. Avoid arguing for your own individual judgments. Try to approach the task on the basis of reasoning.
- Avoid changing your mind solely for the purpose of reaching an agreement
- Avoid "conflict reducing" techniques, such as majority vote, averaging, or trading ideas in order to reach decisions.
- 4. In making decisions, view differences as helpful, rather than unfortunate. 5. Do not seek information outside the group.

Anita Campbell



Moon Survival

Your group represents the crew of a space ship that was scheduled to land at a space station on the lighted surface of the moon. Due to a radar error during powered descent you have landed some 200 miles away from the station. The rugged terrain on which you have landed caused much damage to your ship and equipment and since the survival of each and all depends on your reaching the space station, the most critical items available must be selected for the 200 mile trip. Below are listed the fifteen items left intact and undamaged after the landing. Your task is to order these items in terms of their importance in helping you reach your destination.

Select a group reporter and on the basis of the group's consensus on the importance of the items, place the number 1 in front of the most important items and so on through number 15, the least important.

Box of matches
 Carton of dehydrated food
50-ft. length of rope
 Parachute silk
Portable heating unit
Two 45 caliber pistols & cartridge
Carton of dehydrated milk
Two 100 lbs. tanks of oxygen
Stellar map (of moon's constellation)
Inflatable life raft
Magnetic compass
5 gallons of water
Signal light
 First-aid kit
 Solar-powered transmitter-receiver

Anita Campbell

Subject	Area(s)	Englis	<u>sh</u> _		
Unit(s)	Or (gin a l	Humor	(Short	Forms)	:
_			Analyza	ation	

Objective(s): To analyze what creates short forms of humor in order. To develop own skill in creating visual/verbal humor.

Procedure:

Students collect samples of the following types of cartoons

- a. Single frame and cartoon strip
- Hero adventure strip and soap opera strip
- Newspaper column (humorous)

Spend one or two classes as needed on each type to:

- analyze how humor was created (general
- elements)
 analyze specific characteristics of this (one) form of humor

Resources and Materials

Sunday/daily papers Magazines

Newspaper column, e.g. Erma Brombeck, Art Buchwald

Draw from teacher's personal analyzation of humor and students' immediate analyzation of examples they selected.

Evaluation: Leaflet containing class notes and analyzation of our samples.

Comments on use: I have not found any particular printed sources for humor elements.

141

Sister Barbara Borders



Subject	Area(s)	English
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Unit(s) Original Humor -- Type A: Analyzation

Objective(s): (The following is the specific procedure for the types of humor already listed.)

Single frame and cartoon strip

Procedure:

Using a single frame cartoon:

In small groups of four or five, share examples explaining why the cartoon is funny.

As a group, draw up a list of elements of humor. Groups will combine these lists so that the class will come up with a class guide list of elements of humor.

Teacher add elements, examples not covered by students such as: exaggeration/understatement; nonsense elements, such as stupidity, filler, slapstick; contradiction/the unexpected, such as irony, out of time/out of place.

Write captions for the photos inculated—as a small group. Test these out on other small groups to see how successful your group was.

Using a strip, analyze how the sequence builds up to a "punch line."

In small groups, rearrange sequence to change or wreck punch line climax.

Resources and Materials:

Samples
Single frame/cartooned strips

Photos/posters

Evaluation:

Comments on use:

142

Sister Barbara Borders



Subject Area(s) English
Unit(s) Original Humor Type B: Analyzation

Objective(s): Hero adventure/soap opera strips

Procedure:

In small groups, share examples brought to find general elements of humor and to find specific elements for this type of strip.

As a class, draw up a list of specific characteristics. Teacher add elements not covered by students, such as:

Hero adventure

typical situation requiring ACTION typical hero type secondary characters (bad guy, victim)

Soap operas

typical situation requiring EMOTION typical listener/advisor secondary characters: people with emotional problems

In small groups, plan to <u>act</u> out either a soap opera or a lare adventure (as assigned) for the class to be graded on: (a) how well did the skit illustrate the characteristics of this type of humor? (b) how original was it? (c) how funny was it?

Compare cartooned/acted versions and lead into how this type of humor could be developed into a strict-ly written form.

Resources and Materials. Cartooned strips: hero adventure, soap opera

Evaluation:

Comments on use:



Subject	Area(s)_	English	· · · · · · · · · · · · · · · · · · ·	
Unit(s)_	Origina	l Humor:	Analyzation	

Objective(s): Humorous newspaper column

Procedure:

Read column and fecide what general humorous elements are present and what particular changes were made from visual to verbal presentation.

In class discussion, evaluate how effective different techniques, situations, characterisations were to create verbal humor.

Resources and Materials:
Newspaper column--dittoed
for student use: e.g. by
Erma Brombeck, Art Buchwald,
Bill Vaughn, and Fichard
Armour

Evaluation:

Comments on use:

144

Sister Barbara Borders



Sub_ect	Area(s) French	
Unit(s)	Telling Time,	#1

Objective(s):

Learn to tell time in French. Learn shape-, colors, plus materials in French. Learn to listen, hear and follow commands.

Procedure:

In French instruct students to:
Go to blackboard and design a circle marking horizontal and vertical lines.
Choose materials from assortment on table—le papier bleu, un cleu, un regle, etc.
Cut out circle; mark it; cut out indicators; mount them and thus make a clock.
Indicate various times on clock according to times given. Raise clock to verify understanding.

Script:

Le premier rang: Allez au tableau noir. Prenez la craie. Dessinez une cercle. Mettez une ligne horizontale entre la cercle. Mettez une ligne verticale entre la cercle. Dessinez une ligne diagonale de gauche a droit entre la cercle, etc. Asseyez-vous.

Maintenant debeut. Allez a la table. Choisissez un papier bleu, des ciseaux, un clou, un regle, et un papier blanc.

Prenez le papier bieu et les ciseaux. Coupez une cercle. Prenez un style mettez une ligne horizontale entre le cercle. Mettez une ligne verticale entre la cercle. Maintenant, mettez une ligne diagonale de gauche a droit. Mettez un autre ligne diagonale de droit a gauche. Dessinez le numero 12 en haute de la ligna verticale

Resources and Materials:

Scissors
Colored paper--marked in circles
Brads
Ruler
Pen/marker

Evaluation:

Comments on use:

Subject	Area(s)_F	renc				
Unit(s)	Teli8	Tim,	#1,	ņ,	2	

Objective(s):

Procedure:

Dessinez le numero 6 au but de cette ligne.

Dessinez le numero 3 au droit de la ligne horizontale. Dessinez le numero 9 au gauche de cette ligne. Mettez les numeros 1 et 2 entre les numeros 12 et 3. Mettez les numeros 4 et 5 entre les numeros 3 et 6. Mettez les numeros 7 et 8 entre les numeros 6 et 9. Mettez les numeros 10 et 11 entre les numeros 9 et 12. Mettez un point daus le centre de la cercle.

Prenez le papier blanc. Dessinex deux indicateurs: Un grand indicateur et un pepit indicateur.

Coupez-lez. Mettez le but de grand indicateur sur le point. Mettez le but de petit indicateur sur le but de grand indicateur. Poussez le clou entre les buts.

Veus avez une horloge.

Tournez le grand indicateur a douze. Tournez le petit indicateur a trois. Quelle heure est-il? Il est trois heures.

Etc.

.

Evaluation:
Immediate evaluation in the finished product—has it been completed according to instructions? Students may also check themselves as they go along by watching others. The clock provides the same kind of evaluation—students may check their own accuracy and teacher has immediate feedback.

Comments on use:

Excellent for introducing the unit on the telling of time: students are curious about the product, enjoy the challenge of following instructions and are eager to show correct times on clocks in step with their neighbors.

Resources and Materials:



Subject Area(s) French
Unit(s) Telling lime, p. 3

Objective(s): students tearn to tell, hear, read and write time in foreign language.

Procedure:

Construct clock according to instructions using paper, scissors, clips, etc. Make clock correspond to instructions.

Cassette tape airplane and train (terminal).
Students announcing arrivals and departures
Students comprehending cassettes

Read tour brochuse, and in day.

Write invitations specifying time.

Resources and Materials:

Large clock for beginning students (hardboard)

Paper, scissors, clips and rulers for making clocks

Realia---tour brochures

Cassette tape

deuxieme livre, AMSCC A-LM Harcourt Brace

*Evaluation: Dietation of time, of iten dictation corresponding clock to speaker's instructions. Ability to write time. Check oral ability.

Comments on use:



Subject	Area(s)	French	I	

Unit(s) Letter Writing--Correspondance
Etrangere

Objective(s):

To become acquainted with people from a different culture, thus broadening student's own perspective and interests, knowledge of country and people. To realize that language is a current, living vehicle for communication. To develop skills in writing with focus on letter writing. To develop skills in translating and acquaint students with use of idiom.

Procedure:

Ordering of pen pals: Students are invited to order pen pals early in the year and are able to specify nationality, sex, age, and interests. Through IYS one will receive two extra pen pals for every ten ordered. These extras will be adopted by the members of the class who have not ordered their own.

Writing of letters: The class is assigned to write a letter of introduction to his/her pen pal in the target language (French) following formula for letter writing. After the rough drafts are corrected and approved, the letters are copied onto airmail stationery. If necessary, envelopes are available. The class might also be provided with stamps or find them available in the classroom.

Incidental vocabulary used: lettre, papier a ecrire, envelopper, l'enveloppe, timbre, le facteur, la buite de poste, par avion, le bureau de poste, la rue.

Facts learned: types of paper to be used in writing airmail letters, stamps, information necessary, basic operation of American and French postal system; location of countries on map, cities, provinces, differences in addressing letters, etc.

Resources and Materials:

International Youth Service order forms and bulletins

Packet of airmail stationery and envelopes Roll of airmail stamps

Map of French-speaking countries Atlas

Evaluation:

Students are given credit for having completed a letter in French to a specific person; however, I give a few more points to those who have included more detail in correct grammar.

Comments on use:

Students are very enthusiastic about this project and, partially because they feel it is student-initiated, participate eagerly, unanimously.

Subject Area(s) French II or III

Unit(b) Business Letters

Objective(s)

The student will be able to write a simple business letter in French; translate a simple business letter; understand the basic format of French business letters abbreviations. Idioms.

Procedure:

Students translate several letters making list of vocabulary peculiar to business concerned; secondly, listing idioms used in typical business letter; thirdly, explaining abbreviations used.

Students compare their translations to those on file.

Students respond to a letter according to the directions given, then compare their response to one on file.

Letters are typed on business stationery.

Resources and Materials:

File of sample business letters (kept current) received from firms in French-speaking countries with focus on France & Canada. Include variety: factories, medical, legal

File of translations and sample responses to letters on file

Business stationery

Typewriters (if available)

Evaluation:

Letters are evaluated according to these criteria: communication of basic information, correct grammar, correct use of idiom, correct use of form, correct spelling, neatness

Comments on use:



		() Franch II	i
		wiss Minidocs	
Objective(s): To study culture (Swiss) in depth (using			starting point).
i		a	
Procedure: Assign an in-depth study of one minidoc : written or oral report.	opic	Resources and Minidocs American-Swiss	
Using criteria for evaluating culture, ex or all minidocs: background; artefacts, people, attitudes, etc.			
Develop a minidoc using (in French) simil structures.	lar		San Contraction
			•
	 		•
	1.		1

Comments on use:

Subject	Area(s)	French	11	
•				
Huft(s)	Status Mi	Inidoca	(Mini	(_documentardes)

Objective(s):

To acquaint students with culture (Swiss) as manifested in television documentary. To familiarize students with vocabulary. To emphasize construction of complex sentences plus the Ne . . . que construction.

Procedure:

Show film: Minidoc: Jazz, Yodelling, July 4th, William Tell--discuss immediate impressions.

Distribute French script for second showing. Ask students to interpret general meaning, to familiarize themselves with French pronunciation. Point out constructions: (1) C'est une tradition qu'un grand nobre . . . (2) ce n'est qu'un aspect . . . ce n'est que maintenant que le cameraman . . . (3) . . . mais ce qui compte . . .

Resources and Materials:

Swiss Minidocs, American-Swiss Association, Inc., 60 East 42 St., New York, NY 10017

Evaluation:

Performance in translating and pronouncing. Self-evaluation: Compare self-taped pronunciation with film and student translation with enclosed transcript in English. Objective test of vocabulary and sentence structure.

Comments on use:



Subject Ar	ea(s) French	II
	etiersVarious	
Objective(s): To become acquainted with the names of various occup vocabulary connected with each career. To inventory To relate occupations with need for foreign language.	ations and some self in regerd	basic
Procedure: Self-inventories: Les Emplois et Vous; Qu'estce que vous aimez faire?	Resources and i Kit: When I Grow Up Instructo	Materials:
Articles: Quand étes-vous heureux? Passepartout Se/Oct 69, Le Travail C'est La Santé. Ga Va Jan. 73, Presentation of metiers: Show pictures of different occupations emphasizing name plus vocabulary of professionrelate to foreign language occupationsall in French.	Passepartout S Xeorx: Feu Ve Scholastic: C	rt April, '73
Role playing different occupations.		
Matching pictures with dialog or job descriptions.		
Bulletin boardFamous people in occupations requiring foreign language. Word games/puzzles.		
Lisez un journal du Canada, de France, etc.		
Trouvez (les) pour quelques metiers.		
Choisissez un metier et faites une liste de vocabulaire necessaire		
		٠

Comments on use:

Evaluation:

Name	Date
AND THE PARTY OF T	

_			
1	Etaa	170114	hourous?

Très heureux
Assez heureux
Pas très heureux
Pas d'avie

2. Pour vivre heureux aujourd'hui, qu'est-ce qui est important?

	Important	Pas important	Same avis
Aimer son métier			
Avoir des amis			
Pouvoir continuer à apprendre			
Ne pas rester en dehors de la vie politique du pays			ann tod State
Avoir beaucoup de loisirs			
Faire des voyages			
Avoir une voiture			
Ne pas s'occuper des autres			4-4

Vous sentex-vous libre?

Tres libre	Pas assez libre	Sane avia
	V	

- a. Quand vous discutez avec vos parents
 - Dans votre façon d'occuper vos loisirs!
- c. Avec celui ou celle que vous aimez
- d. Dans vos achats
- e. Zuand vous choisissez votre. métier
- f. Dans votre vie à l'école au lycée
- g. En politique

Les Emplois et Vous

mettre en rapport avec vos emotions.

Qu'est-ce vous aimez faire? Ne répordez pas trop vite. Pensez pour une moment. Votre réponse seriez tres important. Que vous aimez faire maintenant vous aiderait decidez que travail vous aimeriez dans l'avenir.

La premier chose vous avez faite est vous mettre en rapport avec vos emotions autour que vous aimez faire. Considérez le vraiment. Cherchez vous profoundement.

Regardez la liste aux choses faire. Pres de chaque, encerclez le nombre à exposer comment vous sentissez. Encerclaz l s'il est quelque chose ce que vous aimez à faire. Encerclez 2 si vous n'êtes pas sûr. Encerclez 3 s'elle est quelque chose ce que vous n'aimez pas à faire.

Si Vous Aimez:	1	2	3
Travailler dans la maison	1	2	3
Travailler avec gens	1	2	3 3 -
Travailler avec machinerie,	1		3 -
Resoudre intiguer	\mathbf{r}	2	. 3
Travailler ensemble proposer	1 1	2	ຶ 3
Parler pour étrangers	1	2	3
Jouer un instrument musical	1	2	3
Travailler avec tout le mande	1		3
Réparer la moto	1	2	, 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Raconter des histoires	1	2	3
Prendre exercise physique	1	2	3
Travailler avec votre mains	1	2	3
Lire un livre	1		3
Fait une voiture modèle ou une avion modèle	1.	2	3 3 3 3 3 3 3 3 3 3 3 3
Ecrire une lettre	1	2 2	3
Argumente avec votre aimés	1	2	3
Travailler avec les nombres	1	2 2	3
Dessiner las portraits		2	3
Rassembler les choses	1	2	3
Vendre les choses	1	2	3
Faire las reparations dans la maison	. 1	2	3
Faire une expérience scientifique	1 .	2	3 .
Planter un jardin	1	2	3
Maintenir les détails	1	2	3
Aider autres personnes	1	2	3 3 3 3 3 3
Devenir sale	1	2	3
Travailler dans l'usine	1	2	3
Etre actif	1	2	3
S'asseoir tranquillement	1	2	3
Travailler dans un office ou l'ecole	1	2	3
Travailler a un bureau	1	2	. 3
	-		_





Subject	4rea(s)	French I	I

Unit(s) A Second Language Opens Many Doors-Research Project

Objective(s):

To initiate awareness of language as a tool to self-development. To acquaint students with available opportunities. To show students values in foreign language study -- specifically, monetary value.

Procedure:

Research Projects:

Choose 1 - 4 - 5 weeks usually first quarter.

List of jobs available in foreign country and/or requiring a second language -- mounted display notebook callaction (30 points)

Report of approximately 1000-1500 words on one specific bi-lingual job or study opportunity or one career with emphasis on value of foreign language, (40 points)

Research paper of approximately 1500-3000 words (3 sources): study abroad; one or several careers in the field of foreign language; service abroad (missionary work, Action); A.F.S. and other opportunities for student travel. (50 points)

Resources and Materials:

Casewit, Curtis W. How To Gat a Job Overseas, ARCO Publishing Co., New York

James. Charles J. The Directory of Overseas Summer Jobs

Evaluation:

Evaluate on point basis (which might vary from listing above) according to criteria for research paper: organization, documentation, complete bibliography, content.

Comments on use:

I keep resulting products on file for further discussion throughout year, for others to share as interests shift, for sources for other projects.

Barbara Cooney .

Subject Area(s) French II

Unit(s) A Second Language Opens Many Doors:
Research Project

Objective(s):

Introduce various articles and materials useful in future research project. To acquaint students with opportunities available as a result of studying a foreign language.

Procedure:

Introduction: Activity 1

Choose one field: medicine, law, teaching, dramatics, business, etc.

Perusing materials, articles available, list five ways a foreign language can be an asset in this field.

Discussion of findings--How can language study lead to finding better jobs? What jobs require a language? What are college requirements in foreign language area? Why study a foreign language?

Resources and Materials:

"It's a Shrinking World," Accent on ACTFL, Sept. 73 Walser, F. Leroy, "Career Education Holds FL Challenge" Accent on ACTFL, Sept. 73 Merlclein, Helmut A. & Georges Cooley, "International Business Without Foreign Languages?" Accent on ACTFL, Sept./Nov. 74 Carney, Helen, "Developing a Dialogue about Careers," Accent on ACTFL, Sept. Nov. 74 Lester, Kenneth A. "The Career Crisis," Accent on ACTFL, No. 75 Johnson, Teresa; Taub, Alice Kent, A Foreign Language: A Key Asset, Dept. of Modern Languages, St. Louis Univ., St. Louis, MO, 1975 (75¢)

Evaluation:

Since this is an introductory activity, evaluation is in the final research paper; however, I evaluate this on these criteria: Does student participate in discussion? Has he completed the listing? Point system.

Comments on use:

Usually evokes response from class and the discussion seems to inform members of class. Also, has been good to follow up project with similar discussion.

Subject Area(s) French II	Subject	Area(s)	French	ΙI
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Unit(s) A Second Language Opens Many Doors:

Research Project

Objective(s):

To show students that jobs using a foreign language are available. To acquaint students with the sources for finding these jobs. To acquaint students with job ads in English and in target language.

Procedure:

Jutrosuccion: Activity 2

These through magazines, newspapers to find at These 1 to 3 available jobs demanding a knowledge of foriegn language or sojourn in foreign country.

Mown: on paper listing source of want ad plus translation if necessary or copy if impossible to cut out.

Post on bulletin board.

Researches and Materials:

Canadian Newspapers in French and English: Montreal, Quebec, Toronto
French newspapers
Papers from French-speaking countries
Christian-Science Monitor
New York Times
Wall Street Journal
Business magazines such as
Forbes, Fortune
Travel magazines such as Holiday
Inn magszine
U. S. Civil Service brochures
Trade journals

Evaluation:

Has student completed project according to specifications? I give credit points for finished job.

Comments on use:

Allows student to share information and helps them to start thinking about a research project. 15%

Barbara Cooney



Subject Area(s) French II

Unit(s) Language in the Marketplace

Obje**c**tive(s):

To acquaint students with media and commercials from another country. To understand a culture through advertising. To develop advertising selling a product in French. To become familiar with imperative structures.

Procedure:

Film--Students discuss criteria for evaluating advertising.

Students watch films and discuss according to these criteria: products, prices, background, music, artefacts, psychological approach, with the idea of developing a paper, comparing one commercial to an American commercial for similar product.

Students become familiar with vocabulary and pronunciation of commercials so that they can "dub in" sound track.

Follow-up activities: Students develop their own commercial (or lay-out for advertising) which will sell an American product in France (or Switzerland). Use imperative.

Students prepare salestalk in French persuading a Swiss or French person to buy an American product.

Resources and Materials:

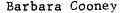
American-Swiss Association, Inc. 50 East 42 Street, New York, NY 10017

Film: "Language in the Marketplace" (a series of commercials, script, criteria for evaluating advertising, bibliography)

Evaluation:

Paper evaluated on organization; completeness.

Comments on use:
Students are interested in films and discussions and enjoy developing follow-up activities.





Subject	Area(s)	Homemaking	

Unites Clothing - Creative Costume

Objective(s): Student demonstrate ability to make their own pattern. Student develops a leisure time activity.

Procedure:

Use basic pattern and then design a garment. Cut all pieces of pattern needed.

Make trial garment before final garment.

Have local designer discuss vocation and need for training.

Make transparencies of before and after pattern in preparation for public appearance of students.

Researche and Materials

Flat Pattern Design by Hallen

Local department store for merchandise as well as fashion trends

Evaluation: Students make checklist to be used for garment.

Comments on use: Students commented—they really learned fitting techniques needed in the making of any garment. Most students do not want to take the time for this course. In other words, their creative spirit has not been sparked.



Subject Area(s) Home Economics

Unit(s) Clothing - Creative Costame

Objective(s): Student demonstrates an ability to work in stage costume designing.

Procedure:

Secure cooperation of school production department (drama, music, etc.) to allow students to design a costume, perhaps not make 50 of each, but at least learn difference between stage costuming and fashion wear.

Resources and Marchials:

A speaker from Lyceum
Theater costume department

Text

Evaluation: Parents who saw production could evaluate costuming. Students develop checklist.

Comments on use: For only the very interested select few students.

160



Subject	Area(s) Home Economics
Unit(s)	Housing - Furniture Renovation

Objective(s): To develop an appreciation for construction and finishing of furniture.

Procedure:

Select a piece of furniture to be restored.

Discuss use of this skill as a part- or full-time business.

Resources and Materials:

Pamphlets:
"Formby's Tips on Furniture
Repair and Care"
U. S. D. A.--"Refinishing
Furniture"

Local person-one who does refinishing, upholstering, etc..
McGinnis Upholstery Shop Sarah's Shop, Blackwater Industrial arts teacher

Evaluation: Grade individual projects.

Comments on use: Students enjoy this but very time consuming for school.

161



Su^1	ject	Trea(s)	Home	Economics

Unit(s) Child Care

dejete fat to the develop an awareness of kinds of services available for care of efficient for develop an attitude of service rather thangiust observation toward their thanging less.

Startely :

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The marticipe of conts distribution, I trusted's Thomapy cotor Smithing markings

intermediately on backet

Nuclear e soloals Public Private

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inclosure treis crip, take time to discuss jobs orai this at these conters and explore what each operation is is includes-training monded as well as contain to specify this.

Resources and Material of

Supervisors in each center

Figure 1 Students write an ev. suation of trip--partly structured by list handled out defore trip.

Formers on and: Students talk about it for many years later.

162



Unit'.) Personal Culture

Objective(s). The student will become aware of responsibilities of operating a business. The student will be able to know and practice social graces.

Procedure:

Organized class into a company with president, vice-president, etc., advertising, etc. Fach student was responsible for making items to be sold in our "boutique" shop called "La Tienda." Students were paid for cost and some for labor. Profit from shop was used to take class out to a meal, where the students practiced good manners learned in personal culture class.

Resources and Materials:

Charm-Chapter on dining on

Harold Richardson, GEGO, special several times on setting up displays, advertising, and marketing.

Evaluation:

Comments on use: I am not sure this activity belonged in this unit, but it could be used with any money unit, etc. Perhaps it took a little too much time.



LA TIENDA

(The Store)

An Adventure in Merchandising

Objectives

- 1. To learn some techniques of managing a business.
- 2. To finance a class dinner to practice "eating-out" skills learned in Personal Culture Class, a semester course in home economics.
- 3. To be creative in crafts.
- 4 To realize profit on basis of individual production.
- 5. To inform and communicate with customers.
- 6. To keep records, individual as well as for the business.
- 7. To work together for a common goal.
- To gain experience with different careers—advertising, managing, selling, bookkeeping.

Ab Adventure in Merchandising .

Introduction

This group experience was actually an outgrowth of a unit in Personal Culture Class on Regraurant Diming on related to the social graces used to the world of work.

The fifteen girls of tenth, eleventh, and twelfth grades wanted to "eat-out" but needed money to finance the undertaking. The class decided to earn the money by having their own business, selling handmade items, such as clothing, crafts, food and kits for the "do-it-yourself" enthusiast.

Place

Approval was secured from the school administration to proceed with the enviser away from the school premises, hoping to work with more people. This meant that our students would be going off campus each day to work on the project. A local Community Center on Main Street of town offered the use of their building free of charge. Incidentally, this center was not in use and needed much class up.

A

Organization

An organization was needed to operate the new business. Qualities needed by persons who would hold the carrious offices were discussed by the class and then the class selected the following offices: manager, assistant manager, and treasurer. Committees chosen were advertising, production, and display.

Theme

A Spanish theme was chosen, thus the name La Tienda, Spanish for "The Store." Many students were enrolled in Spanish classes also. The decor of

the stare was to reclear the Spanish influence. Signs were in both languages customs were carried out, and costumes depicting that culture were used.

Heat 21度

7 p.m. and all day on Saturday, 10 a.m. - 4 p.m. Poor lighting in the building accounted for the early closing hours; and also, this conformed to

Elmances

Fredents voluntarily chose what items they wished to mass produce and thus now all some a minrosement for their labor. The class voted that each student rould todate as such of any one item and as many different items as they thought would sell and they had time to produce. They were a shed to keep a record of the number of items offered for sale, the cost to produce, and ascerta a the selling cost in order to determine the amount of positive rouldage. The organization decided to return one-half of amount dealized from each student's rotal sales to the student and the other/one-half/was lain for the 'eaping-out' experience. After all expenses were paid, cash with said Sol45 to spend as she chose for the dinner.

Tagaing Meransodisa

so cashier and treasurer could complete the bookkeeping task. Each item sola was wratten on a sales ticket with the code of item listed. Persons radius and sale list initialed cales ticket, in case of error in addition.

Advertising

Among the class, perhaps the businest group were the advertising committee members. A month before the opening date, large windows of the building were covered with paper advertising the coming of a new business. Eventually the name of the business was painted on those windows. The local newspaper gave a full page ad, spot announcements were made on local radio, handbills were distributed to students at school and posted in business houses in naighboring towns, and the officers were interviewed on a local radio station - all to promote interest. Copies of advertising are enclosed.

Program

Opening day deremony included ribbon-cutting by the Mayor Pro tem, the principal of the school and officers of the store.

A pinata was constructed and filled with small toys and goodies. This was broken by the "small-fry" customers as a part of the opening-day ceremony.

To atimulate interest, a craft demonstration by a local craft shop employee was acheduled for one evening.

On the last day in the norning, a cake de orating demonstration was given by a local homemaker proficient in that art. The cake was then given to the person whose name was drawn from among the customers who had visited the three during its operation.

Cooperation

The local merchants were enthusiastic for the new business. One placed his merchandise on consignment for additional profit for the store. The local banker visited the store daily and commented on the value of the experience of the store to the students and to the community.



State Fair Community College Marketing Specialist discussed principles of merchandising, display methods, and floor layouts with the students during the planning sessions. Audiovisual Specialist, also from State (air Community Fallege provided a progress report in state, for the project, beginning with the building clean-up, through classroom of the final dinner party.

Observations

actioush the store did not sell out of merchandise, more variety of merchandise could have been offered for sale. The girls observed quite easily what kind of merchan ise their customers wanted and even produced some of those items after daily closing bours.

Students criss outside of regular class time on the items for the sale, but about four weeks of class time was utilized for this project.

Some garle, ease, blad atoms for a project, wrote the directions for meking the from, and sold the results as a "do-it-yourself" project.

Creativity was encouraged by this type of project both on the part of the suller and also as allow the buyer some freedom of any envious.

no element more customers students prepared to sell coffee and lemonade to sell food items to be eaten while browsing in the store. The town has no restaurant service during the store hours. This was not successful. Sowever, possibly due to inadequate facilities.

Comments

The apperintendent of schools cut short a trip to the lake to patronize the business before closing time. He was impressed with the character of the appearation.





The principal connected that it was a successful, valuable learning experience and wished more of this type of learning could be initiated.

One special advoation student enrolled in the class operated the adding machine as a cashier with accuracy and a real sense of accomplishment for

her.

The teacher fell is was a real stimulant to interest in the classroom. Some teachers perhaps would not like to allot that much time to such an activity. This was an especially cooperative class and time well spent according to the teacher.

One merchant in town commented on the value of this experience to his business, as well as a practical learning experience.

Because of the popularity of sector of the items sold, girls took orders for future delivery - perhaps the start of their own business.

Slide Presentation

A act of slides depicting progress of La Tienda with narration by the student manager is available from the State Fair Community College Library.

Evaluation

each officer and committee was asked to keep a folder of materials used and then to evaluate the value of each.

of this endeavor. The form of this evaluation was not structured in any way, but each student related what this experience had meant personally.

Some felt they had learned to meet the public bette; others liked the profit they had realized themselves; and, of course, all liked the dinner party.

No formal written test was administered.



LA TIENDA WORK SCHEDULE

Wednesday

3:30 to 5-5 to 7:30

Tami Jana Kim

Pat

Thursday

3:30 to 5-5 to 7:30

Mary Chris Diann

Peggy

Friday

3:30 to 5-5 to 7:30

Connie Nancy

Donna

Berbara

Saturday

9:30 65 70:00

12:00 to 2:00

2:00 to 4:30

Pat

Donna Connie Mary

Kin

Barbara

Chrie

Tam! Jana

Diann

Sherry

Peggy

4:30 to 6:00

EVERYBODY CLEAN UP!

Cindy and Vanita will be there all the time. We sure to contact one of ug if you can't work your scheduled time.

GOOD LUCK!!!!

THD 19 100AL STUDENT RECORD OF ITEMS OFFERED FOR SALE

Name:

Code:

Items	What Sold	∦ Items	Your Expense	Total Price	Profit
Candles	6	, 6	\$6.00	\$12.00	\$6.00
Cookies	4 doz.	5 _, doz.	\$1.00	3,00	1.50

Total

\$7.50

LATIENDA (THE STORE)

Where: UCCI Bldg. Main Street Smithton, MO

Dates of Operation: Apr. 23 - 4-7 p.m. Apr. 24 - 4 - 7 p.m.

Apr. 25 - 4-7 p.m.

Apr. 26 - 10-4

Owners: Personal Culture Class

Smithton High School

Special Features: Macrame Craft Demonstration Thurs. Apr. 24 6:30 p.m.

Cake Decoration: (drawing for cake) Sat. Apr. 26 10 a.m.

Managar: Cindy Moon

Asst. Manager: Vanita Southard

WELCOME

OFFERS THE FOLLOWING ITEMS FOR SALE:

- * Wood and leather jewelry
- * Pajama Bags
- * Hanging Planters (also do your own kits)
- * Summer Skirts
- * Pillows
- * Homemade food products
- * Aprons
- * Pot Holders (variety of colors and sizes)

- * Soap Baskets
- * Dresser Scart
- * Live plants for the person with a green thumb
- * Decorative Candle Holders
- /* Paper Flowers
- * Creative Crewel Embroidery
- * Clean-up turtles
 - * Terrariums (many sizes and shapes)
- * Decoupage items, placques
- * Many other items too numerous to mention

GRAND OPENING--Wed. Apr. 23

Help us break the PINATA with prizes for all

COME-N-BROWSE

COME-N-BUY

COME-N-BROWSE

COME-N-BUY

April 18, 1975

KMOS-TV 2100 West Broadway Sedalia, MO 55301

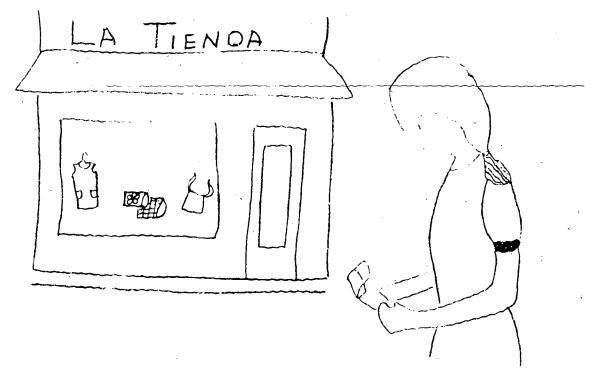
Dear Sir: .

Our personal culture class would appreciate you announcing on television about our shop called La Tienda, which stands for "The Shop." Please tell that it is all homemade goods, even food. Store hours will be April 23 to 26, weekdays 4:00 p.m. to 7:00 p.m. and on Saturday from 10:00 s.m. to 4:00 p.m. It is located on Main Street in Smithton at the UCCI building. Grand opening will consist of a pinata breaking for all ages of children.

Sincerely yours,

Jane Green
Advertising Manager
Smithton Personal Culture Class
Smithton High School





THE LA TIENDA IS A SHOP RUN BY GIRLS TAKING A PERSONAL CULTURE CLASS AT SMITHTON HIGH SCHOOL. IT WILL BE FULL OF DELIGHTS AND HOMEMADE SURPRISES. IF YOU WANT TO BUY THINGS WITH THE "PERSONAL" TOUCH, COME TO OUR SHOP AND SEE.

THE LA TIENDA WILL BE AT THE UCCI BUILDING ON MAIN STREET, SMITHTON. IT WILL BE OPEN WEDNESDAY THROUGH SATURDAY, APRIL 23 TO 26.

SHOP HOURS: WEDNESDAY, APRIL 23, 4-7 P.M.

THURSDAY, APRIL 24, 4-7 P.M.

FRIDAY, APRIL 25, 4-7 P.M.

SATUIDAY, APRIL 26, 10 A.M.-4 P.M.

MANAGER:

CINDY MOON

ASST. MANAGER: VANITA SOUTHARD



Merchandise Tags

Candle

Itsm
Selling Price
Student's Code

Seles Slip

M

Address

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2 Turtle PGP 150

3 Candle" CJH 178

4 5 NATES NFM 578

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2 9 48

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Subject	Area(s)_	Math			
Unit(s)	Estimat	ing Area	of	Land	

Objective(s): To give students a "feeling" for the amount of land included in an acre (hectare).

Procedure:

Have students gather any outside materials which give the area of some familiar section of land. Examine information in class in an effort to give students a reliable and memorable mental reference as to the extent of an acre (hectare). or example, define an acre as the patch of ground enclosed in a square whose sides have length equal to the distance from the goal line to the opposite 30 yard line on a football field.

Resources and Material:

Evaluation: Here it is not essential that students know exactly (sq. yds., sq. m., etc.) what an acre (hectare) is but rather that they develor i "feeling" for this area by relying on mental pictures of known areas.

Comments on use:

17ö



Sub	iect.	Area(s)	Math
~ ~ ~			

Unit(s) Math in Wildlife Management

Objective(s): To give students an opportunity to sort out relevant data and arrive at meaningful conclusions from various statistical data.

Procedure:

Have students examine resource material in search of data regarding a particular wildlife situation, i.e., deer kill during a particular bunting season.

Have students make a list of questions which could be answered by data, i.e., "How many hunters purchased deer tags?" Use data to arrive at answers to questions involving percentages, probability, etc.

Resources and Materials

Pamphlets from Mo. Dept. of Conservation

Missouri Conservationist

Field and Stream Outdoor Life

Sports and outdoor columns from newspapers

Evaluation: Attempt to evaluate students' use of data by use of essay questions such as "What data is needed to find answer to . .?" Evaluate math skills by checking work on use of data to arrive at conclusions.

Comments on use:

177

Rich Bahner



Subject Area(s) Math

Unit(s) Math in Sports

Objective(s): Give students opportunity to gather their own data and use it to draw conclusions.

Procedure:

Have students record data from a sporting event such as a school game or professional event. Give students in advance some examples of what sort of data to record, i.e., turnovers, fouls, field goals in a basketball game. Do not spell out specifically what students should record.

Have students evaluate one team's performance using the data in an effort to determine what was most meaningful factor in the team's win (loss). Resources and Material::

Evaluation: Compare and contrast students' and your statistical evaluations.

Comments on use:

178

Rich Bahner



Subject	Area(s)	Algebra I	
to a notal	Dania	and Proportion	
Unit(3)	Macro	and Proportion	

Fjective(s): To encourage students to find applications of algebra in solving household (business, etc.) problems

Procedure:

He students hand in "recipes" one day in advance. Tell the students when "recipes" are returned that a situation has arisen in which more (less) of one material has become available. Their job now is to rewrite their "recipe" so that the finished product in the original "recipe" but was built with more (less) material.

Resources and Materials:

Each student brings one "recipe" (might be cooking, instructions for building a model, ecc.)

Evaluation: Check accuracy of proportions.

Comments on use:

179

Rich Bahner

Chicks) Osing Addition and Subtraction Properties of Equality to Solve Simple Equations

Objective(s):

To fillustrate that two changing quantities may remain in a relationship of equivable changing. In it intrates not adding it obtained ing equal anothers of tomain tain an equality cerationship wifir exposing an anthrown quantity.

rocedure:

Crace the recovery of educative action along with 3 coins of the same demonstration. Place enough like coins of the same demonstration. Place enough like indicate the object of the pullerum point and the sign. Take one can from each side and nace that the relative is undisturbed i.e. both sides still =) divitione cals until the pebble remains alone natured by the resolving coins, the balance equation has been broughted white finding what wish. In this case, the politic Using different weight coins, all therefore what happens when unequal members are subtracted from each side and that the weight of the nebble aimed be determined. Reverse the process for the addition property.

Res to a control Mascallal

properties of decomplete of the control of the cont

Evaluation:

Comments on use:

180

Richard McKinley

Sollyeer at als) Hath

College Bogic

Objective(s). To analyze statements and draw logical conclusions. Hopefully, this will help students analyze apparents, advertisements, etc. leading to analyze ing mathematical statements and drawing correct conclusions.

Procedure:

Have students find an advertisement that heavily appeals to being successful, beautiful, sexy, etc. if you use the product. Then have students break down the ad into assumptions made and conclusions which logically follow.

Have students find campaign or political speeches. You may just use an excerpt from one. Break down the speech into separate parts and analyze each by judging suppositions and conclusions. Also judge what type of appeal is used.

Re in. s and Materials:

Magazines and/or news.ap.crs

Magazines and/or newspapers

Evaluation:

Commencs on use:

181

Linda Piatt

Subject Area(s) Math

Unit(4) Metric

Objective(s): To estimate size of frems using metric units, especially linear on is. To measure items estimated using moter at like, topes, it.

Procedure:

Divide class into two teams. Have one student from the ach team go to board and draw lines a given length to the little (such as 1 %, 40 cm, atc.) or give an estimate of the sticked from the classroom in specifier units (height of duorway in cm, height of tallest boy in cm, width of room in m, etc.).

Then Have the two students, measure the Item(s) and point goes to text having observe answer.

Ser a see and Materia

The little second that I (c) for (l) and the sticks are an interest.

Evaluation: Students enjoy this is more even the best students do about the lame was the poorer ones.

Comments on use: You may need to set to ime limit for answers (10-15 sec.). Can also be used with metric weight (mass) o capacity but not as effective.

132

Linda Piact

Subject		Mach
Unite	Hetric	

Objective(s): To learn the basic units of the metric system.

Procedure:

Write the / basic units on cards (approx. 13 cm x 18 cm). It is best to begin with linear units or with the symbols for them (km, hm, dam, m, dm, cm, mm).) Give them to 7 students and have them arrange themselves from smallest to largest. It's fun to give them to the students without them knowing what their own card says (pin them on their back) and have them arrange themselves.

Resources and Materials:

 $(-10^{\circ} \times 10^{\circ} \times 10^{\circ})$

M. Tker

Str .: pins--optional

Evaluation: Works well with famior high students during first day or two of metrostudy.

Comments on use: Car adopt this to units for wass (weight) and capacity. Could be adopted to measures such as 17 cm, 175 nm, 1.7 m, etc.

Linde " in tt

Many of the following activities could be acceptable at any upper elementary level through high subcol (grade 12). Some (such as repair of instruments) would be more acceptable in a fundamentals class. This, however, would be good for all instrumentalists due to the fact that somewhere in their instruments career they will undoubtedly have mechanical problems which their instruments. Many times minor adjustments could easily be made by the student who would thus save money.

Several of these activities (such as decorating for concerts) would be possible only if you have the time or are artistically inclined.

Many activities can be culminated in one or two days; however, researching and reporting activities as well as instrument repair activities would obviously take several days.

Hopefully, you could develop some of these ideas with different activities and also keep the semeteny in the classroom from becoming standard day after day.



Simi	ect	Area(s)	Mueic
U			

Philys

Objective(s):

The student will become award of the requirements necessary to open and maintain & successful business.

Procedure:

Place a student in an apprenticeship to an existing Information dealer, maybe for a week or month, or at lesst a day.

Establish a reputation as a competent repairmen or reliable source of information.

Eventually, be accepted as a member of Dunn Bradstreet credit union. They will back you on orders or shipments (can be over \$10,000/shipment) and other sponsors.

Draw up physical plans for the ideal music score. Include all areas of music, planos, instruments, showcases, etc., catalog orders for music, and lesson areas.

Resources and Materials:

Carl Wilken, Wilken Music. Sedalia, Missouri

Evaluation:

This would be a very long upom project, which requires much time, patience, and a reputation of competence which eventually gains you support of dealers and sponsors

Comments on use:

		Subject Area(s)	Flementary husic	
		Unit(s)		
Objective(s): To become aware or	the construction of	stringed instrument		

Procedure:

History of Stradivarius and Guaniere instrumenta, present day value.

Structure and parts orientation.

Information on what makes a string instrument work.

Assign students to take a string instrument and play them.

A professional person to come and play and , démonstrate.

Have students try to play, to see the technical facility it requires to play.

Have a violin builder come and show how to build, tools required, instruments in various stages of building (beginning to finished product).

Recourses and Material And misac history book

Milton Cross History

Appel Dictionary of Music

Violin, viola, cello, base and bows for each

Pictures on each if above lay's available

Mr. & Mrs. Banning from St. Louis appear at the Arts and Crafts Fair at Arrow Rock each year. He builds violins and she demonstrates.

Evaluation:

Comments on use:

չ Տան ի	ect Area(s) <u>Elementary Music</u>
Unit	(s)
Objective(s): The 'dent will relate are and music or starting wicarts its, filmstrips, based on it.	th a recording and endeating
Procedure: Teach songs for elementary classes by having student sing the song while the teacher draws the stories on the board with pictures. Students could also do the illustrations. Example: Frosty the Snowman, The Twalve Days of Christmas For older students they can learn to draw and listen to recordings with which they are unfamiliar, incorporating impressionism in music.	Recordings of the songs are most helpful Chalkboard-chalk Knowledge of the song and story
Actual filmstrips or films could be developed might be done in conjunction with art class if art teacher is interested.	

Commence on use:

Evaluation:

This is a good outlet for students who also are not involved in an art program.



	Subject Area(s) Music			
	Unit(:)			
Objective(s): Awareness by students productions from begin	by observing theatrical			
	å			
Procedure:		Resources and Material		
Follow a production in rehearsals, etcperious, actors	t books on drame and theater from your library.			
b. directors c. designers		People involved in production		
	of cast talk to class to a the production.	Stegestruck: Your Career in Theater, Hirschfeld New York Megener, 1963		
•				
Evaluation: The students will eval the overall effort.	uate the whole production and	how each person's role effects		
Comment on use:				
	188			

	Subject Area(s) <u>Music</u>
	Unit(s)
Objective(s): The student will be aware of how personalities and Children's personalities relating to the world and continuous personalities relating to the world and continuous personalities relating to the world and continuous personalities are a second continuous personalities.	and attitudes acabilize job posicions of Work.
Procedure:	Rescurces and Materials
Sing songs affecting different attitudes and behaviors and expressions.	Brother John, Warner Brothers
Make a bulletin board showing different occupant	Ideas, Thoughts, and Feelings, lons. album, L.P. \$6.95
Stress how people and jobs in these areas are different.	Allyn & Bacon, Human Relations Development, G. M. Gazda
Discussion of jobs in music and problems which could arise, role playing.	Your Emotions Intermediate, filmstrip, cassette, United Learning 663 West Howard Street, Niles, IL 60648
	·
Evaluation .	
Common	
Comments on use:	

Unit(s)				
Objective(s): To become aware of the requirements and training of a pieno technician.				
	3			
Procedure:	Remonstrated Material of			
Have a tuner work on a piano in a classroom in vior of the students.	Young, Mike Rooks, Jim M.			
Actual attempt to tune a string by students.	. Stamer			
Explanation of tools and use.	Brochures by Piano Tuners Guild			
Explanation of structure and parts of a pirno.				
Explanar on of technician school for tuning career by a licensed accredited tuner.	Y.			
	**			
5				
	·			
•				
Evaluation:				
/				

Subject Area(s) Music

ERIC

Jim Walk

I have done this. Some of the students were amoved at how complicated tuning a

190

piano can be, also how delicate the inside parts actually are.

Subject	t Area(s) Music
Ur it(s	3)
bjective(s): nderstand and be aware of the requirements of a good	i private music teacher.
rocedure:	Resources and Materials:
ave a private teacher attend classes or schedule afterschool assembly.	
alk about the costs of private lessons for a on-professional teacher as opposed to a pro- essional private teacher in terms of guilds and nions.	
oblems in scheduling for students, problems like hool ball games, jobs.	
low some advanced students to take on lessons th supervision.	
aluation:	

	Subject Area(s) Music
	Unit(s)
Objective(s): The student will become aware of his community	and his musical heritage.
Procedure:	Resources and Materials:
Field trip to Lyceum Theater. Arrow Rock.	History and theater books
Students participating in summer theater at Arr Rock.	of dress, music and decoration of the periods
Organizing and setting up a production in your own school.	Book of the Theater of Yesteryear, Doubleday
Getting the assistance of drama, art, and home economics departments.	J. C. Penney Bicantennial Music, 1975
Attending community musicals or plays.	
Study folklore of the area, things that have happened; find songs that relate to subject are e.g. Lard Hill, Green Ridge, MO Railroad (M kills some hogs belonging to widow. R. R. not pay for hogs. She and her kids grease uphill grade on tracks every night until pay	.K.T.) will an y-
ment is made Hogs? The Sow That Took the	
The students might develop plans to restore old historical buildings in the community e.g. an old opera house, etc.	
Search out and visit the buildings.	
Evaluation:	
	±

Comments on use:

		ي يون ق	Alcain)	Mosic	
		Vafr(2)	· .		
Objective(s):					•
Students shall learn develop decorating for	to develop a then less around the the	nS, organize	music deve	loping the	theme, and
		7	•		¢
Procedure;			Resour	- an Lat	eclals
Explain to the student (oratorios, cantatas, concerts). Select type of music	ecc. or any leas	formal o	Lote o	of cardboard	
Design decorations co	rrelating the mus	sic and the			the Theater
Students will actuall area of the concert.	y carry out and c	lecorate the			

Evaluation:

Comments on use:

A get bogged down on the decoration:

I'm myste should come first and foremost.

	Subject as	said) Bush	
• • • • • • • • • • • • • • • • • • •	, Unit(s)_		
Dbjective(s): Students will become aware of the able to present and changes in mus	different musical a ical styles that oc	styles that a teacher must cour through the years.	st be
~			
Procedure:		Resources and Macerials	:
Research school music programs of Interview with older or retired mu Interview with a more recent gradu	usic teachers.	Records and music of reand roll era	ock
teacher and discover the styles of their concerts.	f music used in	Electronic equipment Synthesizers, electric guitera, amplifiers	
Prepare and perform music suggests contest lists.	ed by M.E.N.C.	Music of hard rock	
Prepare and perform music recognize popular of the day.	zed as more		1
Compare and contrast the selection	ns and performances.		•
	٠ ۵		•
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			,
Evaluation:	ā.		· / b

194

Jim Walk

Comments on use:

·	Subject Ar	ea(s) <u>Music</u>
	Unit(s)	
Objective(s):		1
Students will become aware of th to national or world events.	e historical progres	sion of music as it relates
*		
Procedure:		Resources and Materials:
Working knowledge of classical s		Viewing of 2001, A Space Odyssey
Students will study and chart mu styles and characteristics of ea		Gront, History of Music
Music lists from each era.	.	M.E.N.C. Magazines, Missouri School of Music Magazine
Reading articles from profession	al journals.	
Evaluation:		

195

Ifm Walk

Comments on use:

·Unitie)

Objective(s):

To explore music therapy in relation to therapeutic arts of the exceptional child.

Procedure:

Discuss:

- A. Requirements for a degree in music therapy
- B. Personal requirements
- C. What is N.A.M.T.

 National Association of Music Therapy—
 Representative will visit.

Take a field trip to State School at Marshall.

If possible, include actual working with exceptional child, deaf children, etc.

Resorting and hararials:

Canadage from colleges developing this area

Civil Service or employment offices

N.A.M.T. P.O. Box 610, Lawrence, KS

Journal of Music There; , .. be ordered from above

Evaluation:

This would be good for anyone interested in physical education or special education and music. Sedalia has a part-time music therapist--Gwen Kappelman--La Monte, MO.

Comments on use:

196

		Subject Are	a(s) Music	
. (Unit(s)		
Objective(s):				
The student shall le someone's music.	arm the value of a poe	et's work and	d how it could be a	et to
× - 7				
Procédure:			Resources and Mate	rials:
The students will se or write a poem to e	t an existing poem to xisting music.	music and/	Elizabeth Barrett How Do I Love Theo Schirmer	
Research poets or wr -prose) have been set	iters whose works (poe to music,	etry or	Any prose or poet:	ry books
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Duolantina				<u> </u>
Evaluation:			\	

Comments on use:

197

	÷		Unit(s)	ر ما معلق المعلق ال المعلق المعلق المعل	
Objectiv	ve(s):			• .	
	ld will becom entalist.	e aware of the r	equirements of bea	coming a professional	• .

Procedure:

Objective(s):

Field trip to St. Louis or Kansas City Philharmonical

To sit and work with a professional on a piece of music.

To sit in on a lesson with a teacher and a private student.

To allow advanced students to work with younger or beginner students. Have professional groups appear for the student body.

Have a music union official talk with the interested students on costs of unions, advantages of organized unions and disadvantages.

Breakdown of the areas of specialization in instrumental areas.

Requirements for these syess.

. Sulanias and operate anities.

r.es. es and Materialist

Career in Music Education, Charles Gary, M.E.N.C., Washington, 1965

Careers & Opportunities in Music, Alan Rich, New York, Dalton, 1964

Evaluation:

Comments on use:

I allow students to work with younger or beginner students now. It sometimes seems like the students relate better than between teacher and student.

	•	4 > 4 = 1 =	
,	Subject Are	ea(s)/ f Music	-
	Unit (s)		
Objective(s):	· •		•
The children shall become aware of in station.	terraction of jo	obs in music and a radio	
		1	
Procedure:		Resources and Materials:	•
Disc jockey will visit class.		Contemporary records	·
Discussion of music played in morning evening.	, noon, and	Mocd records	
Types of music in regard to station F country, rock.	.M., A.M.,		٠.
Play different records and let studen according to time of day.	ts place		:
Visit a station.		-	
•			
		••	
	•		
			÷
Evaluation:	• *		

Procedure:

Comments on use:

1

United

Objective(so:

Students shall be aware of the job opportunities in areas of stage and dange bands.

Procedure:

Orientation on stage bands.

Make up of instruments required.

Music and styles of stage band.

Students will make up their own band.

Rosen e

Marican Music, 332 S.
Michigan Avenue, Chicogo, 11, 50504

Evaluation:

Comments on use:

 $\dot{\mathbf{2}}\,0\,0$

Subject Area(s)	Music
	•
Unit(s)	

Objective(s):

Students shall become aware of qualifications for a music teacher.

Procedure:

Students write to state department of education for state requirements for degree.

Write to college or university for that school's program in music.

Spend a day with a college student majoring in music.

Spend a day with a teacher in the classroom-on music.

Resources and Materials

Band Director's Guide
State curriculum guides
Teacher's manuals
Fundamentals of Conducting

Evaluation:

Comments on use:

Unition Cavabl Awareness

Objective(s):

Students shall become aware of the fine arts, their interraction and their affection society.

Procedure:

Make a bulletin board on the "Arts" - related jobs.

Student makes a career chart depicting jobs in art, music, and English.

Each student selects activities relating to jobs in these areas.

Example-Listen to music "An American in Pards" (Gershwin).

Draw pictures of scenes depicted.

Write story or poem about the activities in the recording.

Resources and disportals:

Wencered World of Ausi Deubleday, 1956:

This is an Orchestia. Cogni

Evaluation:

Comments un use:

202

Subject Area(s) Music
Unit(s)

Objective(s):

Students will become aware of music and its affect upon employees and their work, patience, etc.

Procedure:

Research and report which industries "pipe in" music into their working areas.

Interview employees and get their opinion of music being played.

Have students list places from own experiences that have utilized piped-in music.

Resources and Materials: Factories Motels Retail businesses Restaurants Dentists

Evaluation:

Comments on use:

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Unit(a)

Objective(s):

Exploring science of sound (renchetres) in melation to sugge

Procedure:

Orientation on pitches, wave lengths, speed of sound.

Have an aumouncer or D. J. visit classroom. Talk shout wave length and how equipment for broad-casting is used.

Visit a radio station.

Experiments in classroom to measure wave longths.

Take a long bottle, two feet in length, open at both ends, through that extend a thin metal rod. Place sawdust or sand in bortom of bottle, a Cork both ends. Vibrate the rod, by simply pushing hand on bottle and his end of rod. Good the indentations in the sawdust. Theck with stiency tesaber for formula for measuring wave lengt:

Res McCue and thece make:

luning forks -

relating to chemiatory
Formulas on measurement of
wave lengths

MDRO Redic (Sede in)
Yares Bro (Astronomy (STS)).
Sedelia
KMMO-KMFL, Fersion in buch
ends, 2 corks, seviouse and
long metal rod

The Science of Sound, Bell Telephone Labs, Inc., Folkways Records & Serv. Corp.

Evaluation:

Comments on use:



		, ,	I_{∞}		ea(s) Music		
			^	unit(8)	, .	* ;	
Objective(s)	28	• .		•			
Students sha	ll become a	ware of di	fferent j	obs which	are '	n music.	
	/	· ·	•	,		•	*
Procedure:	• 1				Resources and	Materials:	1
Sing songs a	bout differ	ent occupa	tions.		"Erie Canal"		
Discuss hist	/ .		/	es to.	"Casey Jones" "Arkansas Tra	veler"	
the songs.	ory and go	, or many or a			"I've Been Wo	rking on the	Railroad"
Games, role guessing job	playing, ed	ting out	ongs,		etc.	.	
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Evaluation:	EXECUTED TO SERVE STATE OF THE S	and the state of t	ensemble wester	neg per-styletellerenegastalas-manerala	ALANTA IN VIOLENCE (ALLA SACCIONA) LA COMPANIA MANAGEMENTO DE SECURIO DE SECU	60 and 1 and 1 and 1 and 2	INTERNAL PROPERTY AND ANGESTERNANT LINES & AMERICAN
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Comments on	use <i>i</i>	2.5				The state of the s	
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Subject Area(s) Music

Unit (3

Objective(s):

Students shall be aware of the business world concerning music employees.

Procedure:

Contact area music stores for acceptance of individual students for one day or a few hours to work in the store or simply to observe.

Could make calls to purchaser on an order which has arrived or to make collection on overdue bills.

Make deliveries -- pianos, etc.

Demonstrate indtruments to customers.

s and one of the

Wilken Music Shaw Music Ike Martin Music Mike Rook's Music

Demonstration ability required

Evaluation:

Comments on use:

Wilkens has students, college and high school level, who actually not and give leasons at the store.



Subject Area(s)_	Music	_/_	\
	1.		
Unit(s)			

Objective(s):
Students will be exposed to occupations in vocal music.

Procedure:

Have a professional visit the class,

Students research and report on hiring operatic or popular singers.

Students will discuss voice qualities, appealing or otherwise.

Record each student's voice; play back for class and guess "Who!s Who in the Tape Recorder."

Research requirements of a music degree.

esources and Materials:

Jobs in the Performing Arts, Chicago: Science Research Associates, 1966

Evaluation:

Comments on use:

		Unit(s)_			
bjective(s):	* * *				
Students shall become aware o	f, different	music for	different p	rofessions.	
	•	` .		·	· 7 .
,			<u></u>		
rocedure:			Recources	s and Material	s
Discuss music of various orga church resic, funeral music, music, pacriotic music.	nf m		Old Rugg Beyond t	ngled anner ed Cross he Sunset March from m Show on Eart	ovie
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Night and an i	,				
Evaluation:		·			1
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7;1			*		
Comments on use:					
	208				t . $^{\circ}$. $^{\prime}$

Objective(s): Students will become aware of music activities in their leisure time. Procedure: Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (.ccord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songe chesen would have to be easily recognized by other part: .an Evaluation: Evaluation: Z 19 Jim Walk	\ .	Subject Ar	ea(s) Music
Procedure: Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depitted. The songs chesen would have to be easily recognized by other part spans and audience. Evaluation: Evaluation: Comments on use:		Unit(s)	
Procedure: Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depitted. The songs chesen would have to be easily recognized by other partituals. Evaluation: Evaluation: Comments on use:	Objective(s):	. <u>-</u>	. (
Procedure: Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood too be depicted. The songs chosen would have to be easily recognized by other part than and audience. Evaluation: Comments on use:			
Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part spans and audience. Evaluation: Evaluation: Comments on use:	Students will become aware of mus:	lc activities in the	eir leisure time.
Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part spans and audience. Evaluation: Evaluation: Comments on use:			
Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part spans and audience. Evaluation: Evaluation: Comments on use:			
Have students keep a tally of every time they hear music during a day or week. Each student will present a piece of music (scord, etc.) depicting their leisure time music interests. Make up a musical skit choosing background, music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part (pan-and audience). Evaluation: Evaluation: Comments on use:			
music during a day or week. Each student will present a piece of music (second, etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part spans and audience. Evaluation: Evaluation: Comments on use:	Procedure:		Resources and Materials:
etc.) depicting their leisure time music interests. Make up a musical skit choosing background music in which the title words carry out the mood to be depicted. The songs chosen would have to be eastly recognized by other part panes and audience. Evaluation: Evaluation: Comments on use:	music during a day or week.		1001 Songs from Reader's
Make up a musical skit choosing background music in which the title words carry out the mood to be depitted. The songs chosen would have to be eastly recognized by other part pans and audience. Evaluation: Comments on use:			Dance Careers for Men and
Make up a musical skit choosing background, music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part pane and audience. Evaluation: Comments on use:		= mderc	Women, A. A. for H. & P. E.
music in which the title words carry out the mood to be depicted. The songs chosen would have to be easily recognized by other part than and audience. Evaluation: Comments on use:	Walte up a must and all the changing b	noterround	and R., 1201 16th St., N.W
to be easily recognized by other part pand audience. Evaluation: Comments on use:			washington, be 20050
Evaluation: Comments on use:			
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	A. Carlo		
$^{\circ}$	Comments on use:		
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2 19 Jim Walk			
		2/9	Jim Walk
			(

Subject	Area(s) Music	
	Theremones of Overheader (and	
Unit(s)	Instruments of Orchestra Care	

and Repair

/ Objective(s). Ability of students in band to do minor repair on their instruments.

Procedure:

Orientation to families of instruments, sight by pictures and handling and playing.

Discussion of care and repair.

Repairman to visit class.

Disassemble an instrument. Reassemble an instrument.

lace a simple problem in the horn. Have a student ind the damage.

Resources and Material:

The truments
Repair and maintenance kits
Lists of costs for repairs
of particular work (glazing,
refinishing, dent removal,
repadding) -- Leblanc

Evaluation: Visit a factory if available.

Comments on Ase:

210

Subject	Area(s) Music	
	•	
Unit(s)		

Objective(s):

Students will become aware and research various occupations in music careers. or hobby areas.

Procedure:

Student will chart at least ten career areas relating to music, e.g. piano teacher, orchestra leader, etc.

The students will team up and play the game of "What's My Line" and select a musical occupation to demonstrate while opposition guesses.

Students will select an occupation and study a person who has excelled in this area.

Students will research the salaries of musicians.

Have the students fill out a teacher-made q-sort to better understand their interest in music.

Resources and Materials:

Children's Dictionary of Occupations Counselor Films, Inc., 2100 Locust St., Philadelphia, PA 19103 Occupational Outlook Handbook, U. S. Dept. of Labor, Washington, DC Brochure of M.T.N.A., M.E M.C., and N.A.S.M., 10c each, 2209 Career Tower, Cincinnati, OH 45202 Kuder Form DD Occupational Interest 11-Adult Survey SRA - Science Research Associates, 259 Research Associates Inc., Chicago, IL 60611

Evaluation:

Comments on use:

MUSIC Q - SORT

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77

Subject	Area(s)_	Science		
			•	
1101+(0)	Genetic	s	•	

Objective(s): To teach the student laboratory procedures which they might be required to perform in a career within the medical field.

edure.

The student will lance his/her own finger and determine blood type, clotting time and nemoglobin count. When the class has finished, we will consider the class to be a gene pool and compare them to the national average.

Resources and Materials:
Anti A and anti B
Blank microscope slides
Hemoglobin charts
Blood lances
Alcohol

Evaluation: It has always worked well and stimulated class interest in genetics.

Comments on use: Make sure that you have signed parental permission slips before doing the lab.

Subject	Area(s)_	General	Science	
				•
Unit(s)_	Electri	city		

Objective(s): For each pupil to know about electrical circuits and heir practical applications.

Procedure:

Discuss with the pupils ways in which electricity may be used in the home.

Show the pupils parallel circuits used in wiring a home.

Show students series circuits and discuss their . importance.

This is used to develop a career in building trades of wiring homes and commercial buildings.

Resources and Materials:
Parallel and series circuit
boards

Have a local electrician talk to the class about home wiring and electrical circuits

Evaluation: Have pupils draw both series and parallel circuits and explain their uses. Pupils could draw in the circuits used in an average home.

Comments on use: This activity would depend on the ability of the local speaker used to help with the program.

214

James Breshears

Subject	Area(s)	Science	or I	Ecology	.
		•			' ,
Unit(s)	Conserv	ation		_	

Objective(s): To determine the shade value of a tree as compared to its actual value for lumber.

Procedure:

The International Shade Tree Conference and the National Arborist's Association say a shade tree is worth \$9 per square inch of trunk diameter as measured 4 1/2 feet above the ground. This is figured by determining the diameter, squaring this figure, multiplying by 0.7854, and then multiplying by \$9.

The lumberman is concerned with board feet. For this, you need the diameter of the tree 4 1/2 feet above the ground and then determine how many times the trunk can be cut into 8 ft. lengths. This can be done by triangulation or by having a student stand next to the tree and reaching as high as possible, which is about 8 ft. and then guessing at the height. This is then checked on the board foot chart and the number of board feet is multiplied by 20c.

Resources and Materials:

Meter stick Heavy string 6 ft. long Conversion chart for determining board feet

Evaluation:

Comments on use: Can be used to show jobs in forestry and some of the jobs they perform. Can be used to sminulate interest in learning different types of local trees.

Charles Ledgerwood

Subject Area(s) Ecology or Science
Unit(s) Erosion, Soil Types, Conservation

Objective(s): To show that compaction of soil results in decreased absorption of water, therefore, causing water run off.

Procedure:

Use a magic marker to mark the cans one inch from the bottom. Select four different areas around or on the school grounds which receive different levels of student use. Push the cans into the soil to the premarked line, pour 250 ml of water into each can and time how long is required for the water to be absorbed. The absorption time is directly related to how compact the soil is.

Resources and Material:

4 small cans of the same size with both ends cut out 250 ml beakers 1 gallon plastic jugs Watch with a second hand Magic marker

Evaluation:

Comments on use: This shows: (1) The adverse effect of soil compaction which results in erosion; (2) How to determine if a septic tank would work well; (3) Why put cattle or horses in a wood lot cuts down on forets production.

Subject	Area(s)	Earth	Sci	ence	. ·	
Unit(s)	Mineral	s	•	٠.	-	

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Dijective(s): To develop a knowledge of different properties used to identify minerals. To be able to identify minerals that are found locally.

rocedure:

Give pupils ten different minerals and have them to group them in any way they can.

Discuss the above groups and arrive at the best way to identify minerals.

Give the pupils a number of minerals or rocks found locally and have them identify each using the properties discovered in the above activities.

Discuss the importance of mineral identification to both mining and agriculture:

Resources and Materials:

A good selection of minerals for identity from Wards Scientific Have a local geologist or agrifertilizer salesman speak to class on the economic importance of minerals.

Evaluation: Give the pupils a group of mineral specimens for identification.

Each pupil should be able to write a paper discussing the economic importance of the rocks and minerals found locally. Lime quarries—or gravel pits or the possibility of undiscovered minerals of importance.

Comments on use: This will give the pupils some insight on the local importance of rocks and minerals.

217

James Breshears



			String A.	rea(s)Chewa	retry \	
	•			Organic Chem	1	
*)	•		Unit s)	Organize one		
jective(s). To show that the ester met	an alcohol and hyl solicylate.	an acid can b	e combine	d to produce	an ester.	To mak
	· . ·	·	,			
•					•	`
·		•				e 12
ocedure: Have students	weigh out gram	s of/salicyli	c acid)	Resources t		, ,
	ml of methyl al		; ;	acid, methy		and
	concentrated s			salicylic a	cid	
	catalysis and a codor of methyl		Vious			•
	will then be e		٤			٠
	reaction would					
organic chemi others.	lst, chemical ma	nutacturers,	among			٠,
· · · · · · · · · · · · · · · · · · ·		•				

Evaluation:

Objective(s):

Procedure:

Write equations for the reactions of alcohols and acids.

Comments on use:

quick easy experiment to do.

218

Raymond Schnackenberg

Subject	Area(s)_	Chemistry			,
			-		
			41	•	
	0.1				

Unit(s) Solution

Objective(s):

To have students become aware of the different ways solution may be designated.

Procedure:

Explain to the students the different ways solution strengths are designated and howethey are prepared.

Have the students prepare solutions of different concentrations.

Discuss the different occupational areas in which preparation of solutions of given concentrations are important; for example, pharmacologist, chemists, and physicians among many others.

Resources and Materials:

Beakers, scales, graduated cylinder and appropriate chemicals to make different solutions

Evaluation:

Give a test on solutions and how they are prepared.

Comments on use:



Subject	Area(s)_	Chemistry	·
77 . 4 . f . \	Chemic	al Reactions	

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		_		_	•	_	•	

To show students that the total mass of reactants are equal to the total mass of products in chemical reactions.

Procedure:

Have the students put some potassium chromate in a test tube and some lead nitrate in an Erlenmeyer flask. Place the test tube in the flask and stopper the flask. Weigh the stoppered flask. Invert the flask. This combines the reactants and a reaction takes place. Explain why a reaction has taken place. Now have the students again weigh the stoppered flask to show no loss or gain of mass.

Important in any caree, in which chemistry is involved.

Resources and Material ::

Flask, test tube, balance, rubber stopper, lead nitrate and potassium chromate solutions

Evaluation:

Comments on use:

This leb shows the concept of conservation of mass in chemical reactions very well.



Subject A	rea(s) Chemistry	
•	:	
Unit(s)	Properties of Substances	

Objective(s):

To have students find the densities of different solids and liquids.

Procedure:

Explain density and how it can be found.

Have students measure volume of solids by water displacement, and the mass by using an equal-arm balance.

The density of liquids are to be found by using density bottles.

Discuss the different occupations in which the finding of densities would be important, for example, analytical chemist and lab technicians.

Resources and Materials Different liquids to find the density of such as alcohol and acetone

Different solids to find the density of such as different metals or woods

Other materials needed are balances, density bottles, water and beakers

Evaluation:

Have students solve density problems.

Comments on use:



Subject area(s) Chemistry	Subject	rea(s)_	Chemistry	
---------------------------	---------	---------	-----------	--

Prophs Solutions

ective(s): To have student, in experience in separating the components of a scalution by distillation. Fire addents learn terms of a armonomer, supptillation. Have student the more aware of the fire more or distill the more occurred areas.

P: dure:

students assemble sever to ferent distillasetups. Then have student use their setup to separate different lutions to istillation.

scuss the different kinds of scupations that say involve a distillation process—for example, the importance of distillation in an oil refinery.

Resources and Mars of Street Pristillation may be supported to the support of the

no isi.

Film loops on di

Evaluation: Give short test on distillation terms.

Comments on use: The students usually gain much more by actually being able to do and see the distillation themselves.

222

Raymond Schnackenberg

militect Area(s) Physics

init(a) Velocity

Objective(s): -

To find the velocity, height and the first ectory of a torown bases.

Procedure:

The students are taken outside to measure the distance a baseball is thrown and to meas the little time of flight to the best of their
Then using velocity formulas, the vertical their and angle of projectory can be calci-

Remodices and Materials. Baseball, tape messure, stop watch

Illustration

Discuss careers which would involve _____s velocity and projectories.

Evaluation:

Give test on projectory problems.

Comments on use:

Sa that leads) merican mis

Or it is, Politica or Candidate

Objective(s). To help tudent, understand realistically the issues of γ of American History that is eligible studied.

100

Prodedure:

In any unit, discuss the political elections (ex. Civil War period, progressive era, depression era. etc.)

Choose 2 people to role play the two Presidential candidates. Have them make speeches for their respective parties and platforms.

Conduct the campaign in the class with class members dividing into positical parties of their own choosing.

Hold the election.

Compare class results with sernal distorical results.

ASE CLOSE TO Write Expense of a last, way they voted as they did!

Assisan History cour

Robearch material period of time

Evaluation: By logistics of their though processes as recorded on the pair. telling why they chose the pair and that candidate also how their doctor could have affected history.

Comments on use:

224

Marcia Turner

Sub as Ar aa(s sudies Studies

Unit s vics -- S. at Government

Objective(s): The student will be familiar with process of state government be able to understand the stape it which a bit becomes a line

Procedure:

Resources and Materials:

Read and discuss in class the unit explaining state government.

Moccara

Mock General Assembly:

Students divide into House of Representatives and Senate.

Elect Speaker and President Pro Temp.

Divide into political parties.

Election of minority and majority leaders.

Appointment to committees.

Introduction and passage of legislation (they propose it, etc.)

Final assembly of both houses to discuss achievements.

Written evaluation on student's part.

Evaluation: Test over the unit (spjective); graded homeworks bonus points for effort during the mock General Assembly.

Comments on use: Fhave used this in past classes and found the students are ver cooperative and enthusiastic in being able to actually become involved in the legislative process. They have even filibustered in the Senate. Overall, it reinforces the process of the path a bill must take before it becomes a law (on the state level)—which also (as a by-product) enforces the national legislative process.

Subj Form(s) Civics
Unic Stroke Lis

Objectiv sy: To so students say court procedures and have a very elementary understanding of the same orks.

Procedure

Study of the text in court, alliam.

Choose ass members to plant as:
 junt criminal law ass witnesses recording secretary bailiff

Remainder of the claims arry.

Conduct trial based on supposed trime.
 Exampler robbery

have fury make a said the court. alliam.

discussion. This is user the clustrate the clystem through which they operate the constructor will have an intetull match the sure all procedures are through which they want to senieve in this unit is for students to become acquiring with court room priced and

ormal evaluation -- only class participation and of

.

Evaluation: There will

Comments on use:

223



The Later Court time empire are leaved

Mr. State Committeen Progs

Drug pamphlete for stolent use

Drugs A to Z (book)

Dial a Drug. That a Druck (postere)

(to 1 - 2) 11, 9=

Objects (a) to todant till understand drug caregor is and their effects and the existing laws or each category

Procedures

Lecture lefining and emplayning categories of gruzs

- a depressants
- b sr boulerie
- erigge if sulled
- d. hard nerdotics
- e, mic.,

Explain existing drug laws, federal and state.

Hand out sheets (hast bestonles of drug cases from various magazines—have students play case worker to help or explain the problems in these cases).

Survey conducted on drug usage and possible legalisation of drugs.

Panel discussions—possible legalization of each of the above categories.

Mosto play daug culture songst "White Rabbt" are in the Sky," etc. Discuss now this in open ed groupe

Evaluation: Test over drug categories and drug laws.

Comments on use: Effective if material merely presented, no value judgments or the part of the teacher, simply know what drugs are and the laws pertaining to them

227

Bert Kimble Marcia Turner

bjective(sT: Student will learn how to be	dant mount
blactive(s): Student Will learn now to be	adget money.
• •	•
<u>~</u>	
rocedure:	Reference and Macerials
Study the unit on consumer problems.	rrocleus democracy
Students are instructed to write the job the have for their career—the gross income of their family, etc.	* · · · · · · · · · · · · · · · · · · ·
Then they compute (using tax tables) their winthly income and from that figure (again amily size) project a realistic budgetse	, stating
Jan Feb March April May Jo	une July
lothes	
tilities	
uto	
OTALS	
Now Page Cot Nov Del Tota	al ·
Control of the Contro	
Torres	
/ () () ()	
The second secon	· ·
Evaluation: Evaluation is given on the ba-	energia compilered to purpose a compiler
outlook on occupation and salary.	
Comments on use: Students seem to enjoy " and never case to be amazed at how quickl	
•	·
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ERIC

Subject Area(s) Contemporary Issues

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Accato) - Algorithms

support (a). Builden of the authors which we compare the tate of inflation of the of them. In come is

Procedure:

Give students of list of products.
Frample: those, state in break, chicken, showpen, deoderant, etc.

cher will then proceed to put theth own favorite chand names and sizes to each product.

over a period of 7 months, they are to go to the same store, looking for the same products and write the price changes over a period of months—
and this a month.

Resources and Materials Ougce. A stores

Point system based on a number of comparisons.

comments on use: Students learn to compare urices if they use two or more stores each month, they also learn the cost of living increase we have been experiencing and finally they learn how to keep track of something (their assignment) over a period of time.

Subject	Area(s)_	Contemporary	Issues	
Hote(e)	Consume	riam	,	

Objective(s): Student will be able to watch or compare the rate of inflation or lack of change in economy.

Procedure:

Give students a list of projects--example, flour, sirloin steak, chicken, shampoo, deodorant, etc.

They will then proceed to put their own favorite brand names and sizes to each product.

Over a period of 7 months, they are to go to the same store, looking for the same products, and write the price, making a chart, showing price changes over a period of months—one trip a month.

Resources and Materials:

Grocery stores

Evaluation: Grade will be given on completeness of charts over the alloted time. Point system based on a number of comparisons.

Comments on use: Students learn to compare prices; if they use two or more stores each month, they also learn the cost of living increase we have been experiencing and finally they learn how to keep track of something (their assignment) over a period of cine.

230

Marcia Turner

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e tedine

good unit in book on techniques and purpose of aggress.

Thow stident to decide upon a topic in which he is tatelested that pertains to America.

have him formulate questions and type survey. Give morey and formulate results (prejudice, popular mongs, autos, issue in the community, etc.)

resear results in class.

Type . Since with all sunter pay the aid and our

Resources and Materials:

Textbook

Masters and paper

Masters and paper

ple incompleted, entirence of conformation now resultsyped, etc.) -- the number of ple incompleted, entirence of conformation now results were tabulated.

determine the outcome of a survey). These surveys were to some extent professional in that they were typed and run off for effectiveness.

231

Subject Area(s) Social Studies -- Conte

Issues

Unit() Vocational

Objective(s): To allow students time to employee the various occupational choices available to them upon graduation from high school, including nature of work, preparation, experience, duties, importance of work to society, enc.

Procedure:

Provide students with a list of objective of the unit.

Provide students with list of various sources of information available to them in their end pration.

Provide an assignment dealing with three of investigations. Explanation: Students will choose three jobs of particular interest to them, then using the resources available, explore these occupations and report on them (outline provided as a guide for completion).

Students to interview five people in a fall-time occupation which the student might be immerested in going anto himself.

Provide a research topic and provide student with the inverse method interprets to complete.

Fill out a proper mullipacion blank.

Connect mank date: lews after viewice clumntrips:

Resources and Materials:

Typed print-out detailing - instructional objectives

Dictionary of Occupational Titles

Dictionary of Occupational Titles file

Occupational Outlook Handbook
Careers file (library)

Filmstrips relating : various occupations

Tapes relating to differing occupations
Magazines, books, etc.

Speakers from the community Guidance counselor

Evaluation: Based on student's abil my to relate to another person how one goes about deciding on a wise occupational or vocational choice.

Comments on use: Must keep students may-provide instructions or guidelines and make sure they are adhered to.

232

Bert Kimble



, ,	ADDRESS	CONTACT REPRESENTATIVE	: TELEPHONE	ge did e	FIELD TRIP	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
	J and S Accounting Warsaw, MO	Ms. Sue Cable	438-7395		No .		8-12	Yes
CPA)	107½ West 3rd Sedalia, MO	Ms. Virginia Zahringer	8 26-8160 ₁		Yes	5 .	11-12	Yes
x Service	400 S. Washington Sedalia, MO	Mr. Wayne Stackhouse	827-1829		Yes	· ·	8-12	Yes
	900 W. Main Sedalia, MO	Dr Alexander	826-3300		Yes	1-6	9-12	No /
1	SFCC or 110½ W. 5th Sedalia, MO	Faith Lovell	826-7100 826-6824	. /	c .	0	7 - 12	Yes
S	SFCC Sedalia, MO	Mr. Joe McBride	826-7100	•	Yes		7–12'	Yes
cruiter	357 E. Business Rt. 5 Sedalia, MO	O Sgt. Will Collier	826-8355		Possibly	any	7-12	Yes
urance Co.	4800 E. 63rd Kansas City, MO	Mr. John Irish	333-6800		Yes	20	11-16	No
etrical	Highway 50 Sedalia, MO	Personnnel Director	827-1712		Yes	30	6-12	Yes
ckers LTD.	480 Richards Road Kanasas City, MO	Mr. Al Ekland	471-4141		Yes	20-30	8-12	Possibly
	Route #2 Sedalia, MO	Mr. LeRoy Young	826-6762		Yes	· .	5-12	No :
al Co.	4th & Park Sedalia, MO	Mr. Don King	836-4000	•	Yes	20	. K-12	Yes
ller	Commerce Building Sedalia, MO	Mr Buller	826-1181		Possibly	small	4-12	Yes 235
er	514 S. Ohio Sedalia, MO	Sgt, Bingham	826-8355		Possibly	any	7-12	Yes



NAME	ADDRESS	CONTACT R. PRESENTATIVÉ	ŢZLEPHONE	FIELD TRIP	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
Artiet	203 W. C. (1997) Marsh 21, 2	#1 Maelma Hansen	886-8464	. No	· ·	7-12	Yes
Attorney at flaw	Cole CRM,	M. Hete Stelling	668-4858	No		-	Yes
Attorney at law	Warsaw, MO	Mr. Edwin F. Brady	438-5/16	Yes	4-5	9-12	Yes
Attorney at Law	Farmer's Saving Banh Marshall, MO	Mr. Larry, McClure	886-6986	No .		7-12	Yes
Attorney at Law	110 E. 5th Sedalia, MO	Mr. Adam B. Fischer 82	26-8112	Possibly		8-12	Yes
Ault's Skelly Station	1570 S. Kentucky Marshall, MO	Mr. Bob Ault	886-6792	No	· · · · · · · · · · · · · · · · · · ·	7-12	No
Auto Body/Shop	Cole Camp, MO	Mr. David Luetjen	668-3155	Yes	2-4	9-10	No
Auto Club of Missouri	400 S. Mentucky / Sedalia, MO	Mr. Bell	826-1800	Possibly		K-12	Possibl
B & E Market	1701 S. Kentucky Sedalia, MO	Mr, Jim Dick	826-2188	Yes	30	8-12	No /
Banges	78 S. Jefferson Marshall, MO	Ms. Dolly Kiser	886-3716	No.		7-12	Yes
Benquet Foods	253 W. Marion St. Marshall, MO	Mr. Caton Martin	886-3301	Yel	20	4-9	Possibl
Benton County Enterprise	Warsaw, MO	Mr. Mahlon White	438-6312	Yes	4-5	9-12	Possibl
Benton County R-I School	Cole Camp, MO	Mr. Vergil Oglevie	668-4427	No	-		Possibl;
Benton County R-IX	Warsaw, MO	Dr. John Boise	438-7351	No	****	8-10	Yes
Benton County Sheriff's Department	Warsaw, MO	Mr. Robert Bresherars	438-5252	Ye.	- 5-6	9-10	No
Beverly's House of	2705 W. Broadway Sedalia, MO	Mr. Fuckett	826-9655	Possibly	small	.K-12	Por ibl:
ERIC /		h	\				237

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Bill Greer Motors In	1 Maria de Sala Sala Sala Sala Sala Sala Sala Sal	n Huwairee	შ <i>ო</i> -წ.იძ	les.	19 11	R-17	Yes
Bolding Gmodery	Cole Carrier	hr E.S. Bonling	668-463L	No		K 12	Posai
Poonslick Regional Library	Sixth & Laming Sedalia, MO	Mr. Parker	826-6195	ies	5 0	K-18	Possi:
Borchers & Heimsock	Cole Camp, MC	Mr. Ervin Borchers	668-4923	Possibl	v		Nc
Bothwell Hospital Physical Therapy	Sedalia, MC	Ms. Nevin Almquist	826-8833	Yes	7-15	7-18	Yel
Bothwell Hospital	Sedalie, MO	Ms. Marie Nicholson	826-8833	Yes	20	12-16	Nc
Breech Academy - TWA	6300 Lamar Avenue Box 797 Overland Park, KS	Ms. Ann Eabaria	891-7500	Yes	20	11-16	Yealfe
Brick Mason	RFO 5 Warsaw, NO	Mr. Lee Slavens	438-5360	No	way ag	. :	Pot
Broadway Car Wasn	310 W. Hipadway Gedalia, MO	Mr. Dale Arms	826-0375	Yes	25-30	/1-12	· 10
Broadway Lanes, Inc.	2119 - Broadwey Sedal a, MO	Ms. Edith Simons	827-04:4	7 3	Large	K-14	Possib
Brown, McCloskey, Buckley	309 a. 5th St. Sedelia, MO	Ms. Mabel Clenn	826-731	No	-	-	No
Buell Body Shop	417 S. Kentucky Sedalia, MO	Mr. Clarence Euell	827-0038	Possitly		K-12	Possib.
Business Mens Assurance	BMS Building Kanses City, MO	Ms. Almeta Wilcher	753-8000	Yes	20	11-16	lic
Business & Office 238	SFCC . Sedalià, MO	Ms. Shirley Evans Joann Billington	826 - 7100	Yes	10-1	1-12	^y 239
ERIC ver	229 5 Thus Secalist No	Mms Aust.	820-3200	ie	15#20%	419	7

, NAME	e.oupresc	CONTACT REPRESENTATIVE	TELEPHONE	FIELD TRIP	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
Cablevision, the.	600 Å. Order. Sedaler, Me	Mon ger	826-9033	Yes	20	5-9	Possibl
Cafeteans Cook at Elementary School	305 F. Chastonia Sedalia, MO	Mrs. Cleo Reed	826-1068	Yes	 , ,	K-6	Yes /
Car Dealer Town & Country Motors	3110 W. Bdwy. Sedalia, MO	Mr. Bill Shumake	826 - 5400	Yes .	` ~~	6-12	Yes
Car Wash Robo Car Wash	W. Main Street Sedalia, MO	Mr. Larry Hancock	826-5911	Yes	~ .	12	Possibly
Cargill Incorporated	urshall, Mo	Mr. Jack Hartwick	886-7478	Yes	20-25	9	Possibl;
Cargill Tutrena Feeds	Unithton, MO	Mr. Gene Hudiburg	3 ¹ -5319	Yes	10	7-12	Yes
Cash Har ware Stores	luó W. Mein Sedaliu, MO	Mr. Jim Bass	826 -6565	Possibly		8-12	Possibly
Cash U.S. Super	C le Camp, MO	Mr. Jim Cash	 6€8 - 3700	Possibly	·	~~ u ,	No \
Central Fire Station	6th and Hancock Schalia, MO	Station fire chief	825 -804 4	Yes		K-12	Possibly
Central Missouri Electric Co-op (REA)	North Highway 65 Sedalia, MO	Mr. Ed Walters	826 -290 0	Yes	25 .	K-12	Yes
Cindy's Beauty Salon	9th/& Warren Sedalia, MO	Ms. Jackie Kaho	827-2562	Possic!;	" -	8–12	Possibly
CIT Financial Services	State Fair Shopping Center, Sedalia, MO	Mr. George Benheimer	826-5700	Possibl	y	8-12	Possibly
City Offices	214 N. Lafayette Marshall, MO	Mr. Ron Collins	886+2201	Ñ	- ~	, , , , , , , , , , , , , , , , , , ,	Yes
Civil heats	State Human Rights Dep Jefferson City, MO		314-751-3325	Pos 161	y 30	. 7-12	Yes
Classic Studio	6th & Montucky Sedalia, MO	Mr. Ed Brummett	826-8888	Yes	5-10	7-12	řec
ERIC 240						/* · .	241

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rnitur	Higher Marker	A SETRILLE	8KC . 25-	FC .	dysak samerin	7-12	Ye.
ina	Highway 65 Sout	Mr. Jone Smile	827 - 692	Yes	1+6	9-12	N.
	10th & Walnut Kansas City, MC	Mr. John Wells	234-2000	Yes _	26	11-10	Res
•	1639 Country Club Sedalia, MQ	Mr. B. A. Fischer	826-0377	Possibly			2066 Eb
	620 Hillcrest Drave Knob Noster, MG	Mr. Cherles Jordon	503-7738	No	60	K-12	Yes
ermarket	701 E. Broadway Sedalte, MO	Mr. Bill Smillis	827-3190	Ye s	15	K-12	Yes
ectors	N. 65 Highway Sedalle, MC	Mr. Ralph Viebrock	826-6531	Yes		6-12	Possil
,	La Monte, MC	ma, Jagonie Whitwort	n 347-5415	No .	20	7-12	Yer
	Cole Camp, MO	Ms. Phyllis Templeton	c 668-3330	Yes	· (:	9-12	No
ind Garden	Marshall, MG	ns. Delford Thumpson	886-5000	No	. ميدن امراد	7-12	Yes
& Needle	112 S. Ohio Sedalia, MO	Ms. Sue Branson	826-0769	Tos.	10-15	K-12	Yes
rance Agency	Warsaw, MO	Mr. Gordon Creasy	438-5621	No		7-12	Yes
lue	Tipton, MC	ms. Dala Yantz	433-2626	No	-	K-12	Yes
	321 W. Second Sedalia, MC	Mrs. Zimmerschied	826-5040	Yen	i a day	7-12	Ye:
opical Fish	610 W. 16th Sogalie MC	Mrs. Dellaven	826-951:2 =	Pesaibly	1	K~12	



ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	FIELD TRIP	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER*
Mershall, A	Mr. kon Weer	886-7438	Yes	10-40	5-12	Possibly
Sedalla '	Mr. Russell Stone	826-9250	Yes		K-8	46a
Wersew, MO	Thra. DeLong	438-5307	No		•	Possibly
Cole Camp, MO	No. Marie Musser	668-4521	Yes	2-4	9,-10	પ <u>્ર</u> ામ
Marshall, MO	Mr. Jerry Arnett	886-2233	Yes	25	7-9	Yea g
Route 1 Sedalia, MO .'	Mrs. Brenda Houk	826-7194	Yes `		6-12	yes Yes
1806 W. 11th Sedalia, MO	Mr. Jim kaymer	827-1212	Possibly	Smali	7-12	Yes
Warsaw, MO	Dr. Shepardson	438-5421	No		K-12	Possibly
Cole Camp, MO	Dr. D. V. Reimanitter	668-3312	Yea	4-6	9-12	Possibly
1810 W. 11th Sedalia, MO	Dr. Robert Vit	826-5445	No-		9-12.	Possibly
Commerce Building Sedalia, MO	Dr. Gary Evert	826-0263	Possibly	Small	K-12	Yes
1701 S. Lafayetre Sedalia, MO	Dr. Joe Bennett	.826-6633	Yes	5 at a	7-12 maximum	Yes
3312 S. Highway 65 Sedalia, MO	Mr. Don Kabler	826-4684	No '	~ ~ ~	8-12	Yes
Highway 65 South Sedalia, MO	Mr. Don Carr	826-7310	Yes .	1-10	8-12	No
La Monte, MO	Mr. D. I. Sevier	347-5385	No		7-12	Yes

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	ADDSTAN	GOEFTWIN REPRESENTATION	TALAFAONT		GROUT SIZZ		GUES! SFEAK
ecturing	Main e loka Rorr Sedelos, o	Iver Finert	80 ² 246 g	1668年,	4.	4-15	F::
vrole:	Wateas,	the Flore Durnam	48€-3 <u>1</u> 33	ŧź	•	8-11	Year
metic Clab	512 Merriam Dr. Merriam, KS 681	" Gereld Carley	911-262-4525		3 .	K	-ousit
kege /ct	18 S. Jefferson Marshall, M	ได้ ที่สีของ อี ธธน≇	886-2107	1:	and the same of th	7-12	Yet
Station	Marsay, 30	76" _ 51E3	438~6022	N.,	-	Tagger	Fossit
& Heavy Equir	Smithton, MC	As Birl Marriot	343-5634	Possibly	at allowance .	4-12	Posstl
ank of Lincoln	liscols, X	Mr. Karl Kroenke	547-3311	Yes	4-,	9-301	Possib
nsurance	1806 4. 11to Sedalia, MO	Mr. Jack Newby Mr. Jerry Newby	827-0122	Yes	1-1	9-11	FORSID
.70	211 S. Renteck? Sedalia, MO	Mi. Jacks	826-8044	Yes	1-1	K-12	Pos÷{b
Vet. Hospital	1701 W. main Sedalia, MG	D: Peacock	827-2057	Ye s	10-15	K-12	Ye
rinary	711 W. Main Sedalia, MC	Ms. Connie Austin	826-1441	lossibly		4-):	Yes
	2 S. Jefferson Marshall MC	Mr. Norvelie Brown	886-6823	Nc-	enter service, et	7-12	Ye
eweler	225 S. Onio Sedalia MC	Mr. Tom Hugson	826-2772	Possibly		K-17	Foesto
tor 4	210 East 3rd Sedalia MC	Mr. Forrest Allen	826-3644	Poseibly	Sms1.	9-1°	foesib
					•		247



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NAME.	ADDRESS	n gi	CONTACT PRESENTATIVE	TELEPHONE		FIELD	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
Golf.	Walnur (Hille Fider y Club, Feder) (e. Mi).	ů.	Mand Amierson-Pro	827~0861	<u> </u>	Yes	~~~	K-12 °	Possibly
Green Riche Tarmers i Merchants Bank	Main Street Green Ridge, MC	Mr.	lib (Robert) Roach	527-3311		Yes	10-15	K-12	738
Green Ridge Post Office	Main Street Green Ridge, MG		Malvin Ream	527-3385	. ,	Ye s	30	K-6	Possibly
Green Ridge Printing Office	Main Street Green Ridge, MC	lh,	Jim Stark	527-3521		Yes	Small	K-6	Possibly
Bill Greer Body Shop	Main Street Sedalia, MO	Mr.	Orval surd	827-2162	•	Yes	5	10-12	No
lallmark	25th & McGee Kansas City, MO	Ms.	Rose A. Lightle	274-4667		Yes	20	11-16	Yes
Harris & Reid	Farmer's Savings Bank Marshall, MO	Mr.	Mike Reid	886-5544		No		7-12	Yes
Heinzler Bros. Walding	Marshall, MO	Mr.	Frank Heinzler	886-7775		Yes	20-25	7-9 🗼	No
Helicopter Pilot	Whiteman Air Force Base, Knob Nepter, MO	Sgn	. Greg Roberts	563-5511	ř	No		K-12	Yes
Highway Patrol	Mo. State Fair Grounds Sedalia, MO	∀.±.	Curt Mathews	827 ~3366		Possibly		K-12	Yes
distory Johnson/Kennedy Adm,	History Department SFCC, Sedalia, MO	Mr.	Paul Neider	826-7100		No	ميسيد ميسيد د	3–12	Yes
Hobson & Son Carpet	2805 W. Brondway Sedalia, MO	Mr.	. Bob Comfort	826-1192		Yes	15	K-12	Possibly
Holiday Inn	32nd & Limit Gedalia, MO	Νr.	Jim Grieshaber	826-6100		Yea	40-50	8-9	Fossibly

NAME	ADORESS	CONTAC. REFRESENTATIVE	relephone	FIELD TRIP	GROUP SIZE	GRADE LEV E L	guest Speaker
Home Lumber	207 E. North - Marahall, MO	Mr. Roland Wood	886-3342	No	-	7-12	168
Homewakers Turniture Co.	809 S. Limit Sedalia, MC	Mr. Shoemaker	826-2122	Yes	-	7-12	Yes
Housewife & Mother	Sedalia, MO	Ms. Judy Holman	826-1759	No		K-3	Yes
Horse Racing	P.O. Box 951 Sedalia, MC	Mr. Anderson	826-7114	Yes	1-10	9-12	Possibly
Howard Construction	1509 N. Ohio Sedalia, MO	Mr. Olen Howard	826-5750	Ye s	5-15	8-12	No
Hurtt's Pharmacy	504 W, 16th Sedalia, MO	Mr. Hurtt	826-2872	Yes	1-10	8-12	Possibly
IBEW Local 814 Credit Union (Secretary)	2111 W. Broadway Sedalia, MO	Ms. June Kuhlman	826-0814	. Yes	6 at a time	8-12	Possibly
IGA	2402 W. Broadway Sedalia, MO	Mr. Ralph Huff	827-1452	Yes	25	K-12	Yes
Industrial Loan & Investment	120 W. Fifth Sedalia, MO	Mr. Firman Boul	826-4800	Yes	25	7-12	ïes
Installment Buying	Farmer's Bank of Linco. Lincoln, MO	In Mr. David Hair	547-3311	Possibly	·	7-12	Ye s
J & J's Barber Shop	1421 S. Limit Sedalia, MO	Mr. Jack Smith	827-2485	Possibly		K-12	No
Jack Cours' Running Quarter Horses	Mo. State Fairgrounds Sedalia, MO	Ms. Tina Brown	826-1135	Yes	5-10	K-12	No
Jefferson Elem. Public School-AdminTeaching	305 E. Chastnut Sedalia, MO	Ms. Imogene Peoples	826-1068	Yes		K-8	Yes
Jim's Garden Center	1000 W. Main Seonlis, MG	Mr. Jamen Foster	826-4411	Ÿes	15	4-1	Possibly 251
	•				•		

		CONTACT REFRESENTATIVE	TELEPHONE	FIELD TRIP	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
;	ADDRESS	Mr. David Terrell	826-7100	Possibly	Any	7-12	Yes
Appliance	Sedalia, M 2907 W. Broadway Sedalia, MO	Mr. Ray Thompson Mr. Paul Johnson	827-2326	Yes	15-20	7-12	Yes
Chiefs	K. C. Chiefs Football. Club. One Arrowhead	•	924-9300	Yes (fee)		7–12	Possibly
*	Club, Kansas City, Mo West Highway 50	Mr. Herb Brandes	826–5005	Yes	15	K-12	Possibly
	Sedalia, MO	Ms. Alice Alexander	886-5611	Ио		7-12	Yes
	Marshell, MO 2500 E. Broadway	Mr. Bill Cline	826-2500	Ye s	15/	K-12	Possibly
i.s	Sedalia, MO	Mr. Bill Coman	886-5444	Yes .	· 15	7-12	Na
	Marshall, MO Highway 65 North Marshall, MO	Mr. Harold Douglas Mr. Jim Athon Mr. Jack Abdon	886-7422	No		7-12	Yes
tion	2100 W. Broadway	Mr. Stuart Gressley	826-1651	Yes	1.5	K-12	Yes
	Sedalia, 50 Knob Noster, MO	Park Manager	563-2939	Yeu		K-12	Possibl:
: State Park	North 65 Highway	Mr. Carl Yates	826-1050	Yes	10	K-14	Yes
, Too	Sedalia, MO 2800 W. Main	Mr. Bob Cook	826-0522	No		K-12	Yes
lders, Inc.	Sedalia, MO 108 W. Pacific	Mr. John Pelham	826-3310	Yes	Swe?	11 7-12	Possibl
acturing	Sedalia, MO						25 3
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			IBUDERUN.	TRID	SIZE	LEVEL	SPEAKE
	er.	Donald Barnes	826-5428	Ne		11-12	î. s
s Monte, h	Мв.	Par Scott	347-5627	No No	-	7-12	ĭ e K
10 W. Sixth edalia, MO	ňs.	Susan Sauers	827-1778	Yes		K-12	foruid.
oute 2 edalia, MO	Mr.	LeRoy Young	826~6762	Yes	20	7-16	No
) S. Jefferson arshall, MO	Mr.	Lee Beardon	885~7313	No		11-12	Yes
01 W. Second edalis, MO	Ms.	Diane Cordry	826~7719	No	1-15	7~16	No
ithton, MO	Mr.	Dirck ·	826-6189	Yes		4-12	Poseibl
incoln, MO	Mr.	George Williams	547~3800	Yes	Inquire	Inquire	Possibl
shesville, MO	Mr.	Bill Wheeler	826-8630	Yes	10-15	1-12	Yes
row Rock, MO	Mr.	John Carey	837-2108	Yes	30	8-12	Possibl
34 Main neas City, MO	Mrs.	Cullen	221-3737	Yes	20	11-16	No
1 S. Vermont dalis, MO	Ms.	Hazel Palmer	826-8816	No		11-12	Ŷes
ompson Hills Shopping ater, Sedalia, MO	Ma.	Shirley Morley	826-0560	Possibly	Small	K-12	Yes
2 S. Ohio dalia, MO	Mr.	Charles Davidson		Possibly	Any	7-12	Yea .
01 W. Broadway dalia, MO	Mr.	Gary Bilder	826-9727	Yes	20	K-12	Yes 255
	edalia, MC oute 2 edalia, MC O S. Jefferson arshall, MO iOl W. Second edalia, MO aithton, MO ancoln, MO arow Rock, MO Ola Main ansas City, MO ompson Hills Shopping anter, Sedalia, MO 2 S. Ohio dalia, MO Ol W. Broadway	edalia, MO oute 2 Mr. edalia, MO O S. Jefferson Mr. arshall, MO outh W. Second Ms. edalia, MO aithton, MO Mr. Incoln, MO M	pedalia, MC Dute 2 Edalia, MC Discond Edalia, MC Mr. Lee Beardon Mr. Lee Beardon Mr. Diane Cordry Mr. Dirck Mr. Dirck Mr. George Williams Mr. Bill Wheeler Mr. John Carey Mr. John Carey Mr. John Carey Mr. Second Mr. Second Mr. Bill Wheeler Mr. John Carey Mr. Sollen Mr. Schirley Morley Mr. Sedalia, MC Mr. Charles Davidson Mr. Cary Bilder	potte 2 Mr. LeRoy Young 826-6762 Mr. Lee Beardon 886-7313 Mr. Lee Beardon 886-7313 Mr. Lee Beardon 826-7719 Mr. Diane Cordry 826-7719 Mr. Diane Cordry 826-7719 Mr. Dirck 826-6189 Mr. George Williams 547-3800 Mr. George Williams 547-3800 Mr. Bill Wheeler 826-8630 Mr. Bill Wheeler 826-8630 Mr. John Carey 837-2108 Mrs. Cullen 221-3737 Mrs. Cullen 221-3737 Mrs. Cullen 826-8816 Mrs. Vermont Mr. Hazel Palmer 826-8816 Mrs. Shirley Morley 826-0560 Mr. Sedalia, MO 2 S. Ohio Mr. Charles Davidson 826-9220 Mr. Gary Bilder 826-9727	pute 2 Mr. LeRoy Young 826-6762 Yes redalia, MO O. S. Jefferson Mr. Lee Beardon 886-7313 No stabilia, MO Mr. Diane Cordry 826-7719 No redalia, MO Mr. Dirck 826-6189 Yes redalia, MO Mr. Dirck 826-6189 Yes reduced williams 547-3800 Yes reduced with the moment of the momen of the moment of the moment of the moment of the moment of the	pedalia, MC pute 2 Mr. LeRoy Young 826-6762 Yes 20 O. S. Jefferson Mr. Lee Beardon 886-7313 No arshall, MO MS. Diane Cordry 826-7719 No 1-15 matchin, MO Mr. Dirck 826-6189 Yes Incoln, MO Mr. George Williams 547-3800 Yes Inquire maghesville, MO Mr. Bill Wheeler 826-8630 Yes 10-15 mrow Rock, MO Mr. John Carey 837-2108 Yes 30 MS. Wermont Ms. Hazel Palmer 826-8816 No mass City, MO MS. Hazel Palmer 826-8816 No mompson Hills Shopping Ms. Shirley Morley 826-0560 Possibly Small nter, Sedalia, MO 2 S. Ohio Mr. Charles Davidson 826-9220 Possibly Any dalia, MO OI W. Broadway Mr. Gary Bilder 826-9727 Yes 20	### Part



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	,	CONTACT		. FIELD	GROUP	GRADE	Guest ·	
3	ADDRESS	REPRESENTATIVE	TELEPHONE.	TRIP	SIZE	LEVEL	SPEAKER	
er of Commerce	214 N. Lafeverta Marchall, Mr	Mr. Len Hayob	886-7464	No .	~	7-12	Yes	
1 & Greenhouse	160 W. Summit Marshall, MO	Ms. Jusnita Dametz	886-7177	Yes	20	7-9	Yes	
e	Arrow Street Marshall, MO	Mr. Gerald Stone	886-7411	Yes	15-20	1-12	Yes	
	Hughesville, MO	Mr. Con Scott	826-7556	Possibly			No	
riety Store	218 S. Ohio Sedalia, MO	Mr. Bill Stratton	826-5270	Yes	20	7-12	Possibly	
	200 Industrial Drive Sedalia, MO	Ms. Maxine Griggs	826-8510	Possibly		K-12	Possibly	!
ger	305 N. State Fair Blvd. Sedalia, MO	Mr. Jerry Jones	826-4975 (home)	Possibly		K-12	Yes	
e	623 E. 2nd Sedalia, MO	Mrs. Vitula	826-5040	Yes	Small	6-12	Possibly	
Cosmetics	120 S. Ohio Sedalia, MO	Ms. Sandra Boul	826-6430	Yes		11-16	Yes	
	Weather Department Whiteman AFB	Captain Koczur Lt. Kowa	563-5511	Yes	60	7-1.2	Yes	
	Cole Camp, MC	Mr. Ed Schnakenberg	668-3231	Yes	8-6	9-10	Possibly	
	Lincoln, MO	Mr. Joe McKnight	547-3621	No	~~~		Yes	
•	Lincoln, MO	Mr. Clarence Frisch	547-3318	Yes	4	9-12	No	
	1817 W. Broadway Columbia, MO	Mr. Vic Ohman	-45-8441	Yes	20	11-16	No	

٠	ODRES	lüntaut Hepris entati ve	IELEYHONZ	FIELD TRIP	GROU" SIZE	GRADI LEVEL	GUE! SPEAI
Division of E. T.	315 E. Fifth Sedelia, MC	The Miles Giles	326-8184	Ĩės	25	11-12	Ÿe ∉
Facifi: Ramirost	210 N. 13th St. Sedalia, MO	Mr. D. M. Tutke	314-2944	ïes	Arr.	7-12	Possi
State Bank	917 S. Limit Sedaliu, MO	Mr. William Claycomb	826-1213	Yes	20-25	7-12°	Yes
State Fair	Box 111 Sedalia, MC	Ms. Myrna Ragar	826-0570	_ Yes	30	3–7	Possi
Valley College	Marshall, MO	Mr. Ed Leslie	885-6924	No	;	9-12	Yes
aners	Warsaw, MO	Mr. Richard Kingma	438-5831	Yes	20	K-12	No '
icle Registration ureau	State Fair Shopping Center, Sedalia, MO	Mr. Fred Kraft	826-3316	Possibly	· —	6-12	Possi
uiter	602 S. Ohio Sedalia, MO	Mr. Charles Davidson	827-0471	Possibly	Any	7-12	Yes
	SFCC Sedalia, MO	Ms. Cindy Henke Ms. Sandy Meyer	826-7100	Yes	30	K-12	Yes
Garage	2809 E. 12th Sedalia, MO	Mr. Keith Ollison	826-4077	Possibly	Small	8-12	Yes
ckline	Cole Camp, MO	Mr. Pete Otten	668-3112	No .		7-12	Yes .
s Donuts	122 S. Ohio Sedalia, MO	Mr. Jake Sarigusa	826-6170	Possibly		K-12	Possit
Stephens Modeling School	4638 Nichols Parkway Kansas City, MO	Ms. Patricia Stevens	531-5866	Yes	6-	7-12	Yes
a Bottling Co.	Sedalia, MO	Mr. W. C. Ream	826-8144	- C S	30	4-9	Possit
inty Ambulance	626 E. Fifth Sedalia, MO	Mr. Joe Wasson	826-5316	îes ·	10-15.	. !	259 tsib
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· 1	ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	FIELD GROU TRIP SIZE	
	700 S. Limit Sedalia, MO	Mr. Bill McWhirt	826-2431	Possibly	6-12 Yes
V	La Monte, is0	Rev. Jerry Jones	347–5557	No	7-12 Yes
ng	16th & Missouri Prolific. Spur, Sedalia, MO	Ms. Rita Kenney	826-4660	Possibly	9-J2 Possibl
	La Monte, MO	Ms, Bernice Wing	347–5407	No	K-12 Yes
	405 E. Fifth Sedalia, MO	Mr. Roy Hinton	826-8887	Yes 25-30	4-9 Possibl
riting	Sedalia Democrat Sedalia, MO	Mr. Jack Schicht	826–1000	Yes	7-12 Yes
nop	501 N. Park Sedalia, MO	Mr. Bill Utz	826-2126	Yes 1-10	8-12 No
TV .	Lincoln, MO	Mr. Rainbow	547-3317	Yes .4	9-12 No
	3501 W. Broadway Gedalia, MO	Mr. Darrell Olsen	826-8400	Yes 15	5-12 Possibly
ncy	S Highway 55 Sedalia, MO	Mr. Gerald Hancock	827–1016	Possibly	6-12 Yes
	3400 Broadway Sedalia, MO	Mr. Tom Ryan	827–3770	Yes / 60	. K-12 Yes
	Rural Route Smithton, MO	Mr. Rudy Rehmer Mr. Jeff Rehmer	343-5668	Yes 15-20	K-12 Possibly
Inc.	Warsaw, MO	Ms. Elcise Atkins	438-5111	Yes 8-10	9-12 Possibly
B	Sixth & Ohio Sedalia, MO	Mr. Mallory	826–6920	Yes 20	K-9 Possibly
p ·	R. R. #2 Sedalia, MO	Mr. Rick Geer	826-1157	Yes 25-30	7–12 No
And the second s					261

	ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	FIELD	GROUP SIZE	GRADE LEVEL	GUEST SPEAKER
cturing Co.	16th & Lamine Sedalia, MO	Mr. Jim Houchen	826-6600	Yes	15	4-12	Yes
cturing Co.	Miller's Park Plaza Sedalia, MO	Ms. Nyra Price	827-3860	Pa	allegan v _{ers} E _{st s} alleg	te parameter que	Yes
r	72 N. Jefferson Marshall, MO	Mr. Bob Rose	886-2002	Yes	15-20	7-12	Yes
1	Thompson Hills Shopping Center, Sedalia, MO	Mr. Paul Stoehr	826-0737	Possibly		6-12	Possibl
leaning	Route 1 Smithton, MG	Mr. Harley Reed	343-5324	Possibly		4-12	Possibl
	P.O. Box 1969 Kansas City, MO 64416	Ms. Joanne Snow	921-8000	Yes (fee)	Any	K-12	Possibl
ers	Marshall, MO	Mr. Casey Kotoweiz	886-7340	No		7-12	Yer
ers	214 S. Ohio Sedalia, MO	Mr/ Bob Johnson	826-5154	Yes	1-10	8-12	No .
ry	East Highway 7 Marshall, MO	Mr. Scott	438-5700	No		-	Possibl
	110 W. Third Sedalia, MO	Mr. Finis Galloway	826-6500	Yes	10	7-12	Yes
egal ng & Fischer	110 E. 5th Sedalia, MO	Ms. Nancy Capps	826-8112	Possibly	-	6-12	Yes
ge	RFD #2 Sedalia, MO	Mrs. Janice Daleen	826-7065	Possibly		K-12	Possibl
&	Sedalia, MO	Mr. Larry Bock	827-3920	Yer	2.5	K-6 '	Yes
ter Service	210 E. 7th Sudalie, Yo	Mr. Larry McRoy	827–199V	Yes.	10-25	9–12	Yes 253



NAME	ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	TRIP	Size	LEVEL	SPEAKE!
Sedulia Council on Drugs	Sedalla, MO	Dr. John Owen	826-8833	No	·	7-12	Yes
Sedalia Democrat-Capital	1700 S. Maasachurette Sedalia, MO	Mr. Don Keller	826-1000	Ýes	15	K-16	No .
Sedalia Fire Dept.	211 S. Kentucky Sedalia, MO	Mr. Jabas	826-8()44	Yes		K-12	Possibl
Sedalia Implement Co.	2205 S. Limit Sedalia, MO	Mr. John Joy	826-0466	Ye s	15-25	7-12	Yes
Sedalia Memorial Airport	East Highway 50 Sedalia, MO	Mr. James Addas	826-9796	Yes	Small	K-14	Possibl
Sedalia Police Department	3rd & Osage Sedalia, MO	Mr. Bill Miller	826-0214	Yes	10-15	1-14	Ye s
Sedalia School of Hairdressing	116 S. Ohio Sedalia, MO	Ms. Fran Nash	827-1270	Yes	25	4-12	Possibl
Sedalia Water Department	111 W. Fourth Sedalia, MO	Mr. C. H. Taylor	826-1234	Yes	15 .	6-12	Possibl
Sheriff's Department	Warsaw, MO	Mr. Bob Breshears	438-5252	Ño	<u>-</u>		Possibl
Shinn Oil Company	RFD 3 Warsaw, MO	, Mr. Paul Shinn	438-5013	Possibly		, mandraphic des	Possibl
Sho-Me Stables	Mo. State Fair Downs Sedalia, MO	Ms. Elaine Knight	827-2343	Yes.	5-10	K-12	Yes
Smithton Fire Department	Smithton, MO	Mr. Lennie Semkin	343-5482	Possibly		K-12	Possibl,
Sound Shop	1716 W. Ninth Sedalia, MO	Mr. Al Reese	827-2223	Yes	20	K-12 :	Yes
Southwestern Bell Telephone	220 E. 5th Street Sedalia, MO	Mr. Bob Johnson	826-9800	Yes	25	K-12	Yes
Southwestern Beil Telephone	600 St. Louis Springfield, MO	Me. Beverly / Beerendzen	417-836-2545	Pcasibly		K-12	Possibl
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·	Carea	COMPACY		FIELD GROUP	
NAME	Amiress	ROPREVENTATIVE	TELEPHONE	TRIY SIZE	LEVEL SPEAKE
Sowers' Horses	Callis Stables Sedalia, MC	Ms. Susan Sovers	827-1778	Yes 5-10	8-12 Yes
Stan'u TV ,	P.O. Box 856, Rt #2 Wareaw, MO	Mr. Stan Johnson	438-6859	No 1	9-10 Yes
State Fair Community College	1900 Clarendon Road Sedalia, MO	Mr. Fred Davis	826-7100	Yes 5-10 Check with Bet	9-12 Yes
State Fair Riding Academy	Route 3 Sedalia, MO	Ms. Faith Lovell	826-9767	Yes 1-5	8-12 No
State Farm Insurance	2111 W. Broadway Sedalia, MO	Mr. L. I. Sevier A	826-6088	No	7-12 Yes
State Representative (Former Highway Patrolman)	500 W. Fourts Sedalis, MO	Rep. Pece Stohr	826-8821	Possibly	4-12 Yes
State Representative	Sedalia, MC	Rep. James Matthewson	826-4696	At capital	K-12 Yes
Swim Pool Lifeguard	2401 W. 2nd Sedalia, MO	Ms. Diane Cordry	826-7719,	Possibly	K-12 Yes
T & O Phosphate	Hughesville, MC	Mr. Larry Owen	826-1813	No	Possibl
Teacher Education	CMSU Warrensburg, MC	Mr. Jim Hudson	429-4111	Possibly	4-12 Yes
The Craft Shop	318 S. Ohio Sedalia, MO	Mrs. Bili Boatman	827-3041	Yes 15-20	5-12 Possibl
The Dog House	116 W. 16th -Sedalia, MO	Mr. Antoine /	827-1941	Yes] 10	8-12 No
Third National Bank	301 S. Ohio Sedalia, MO	Mr. Bob McDoneld	826-0611	Yes • 30-40	6-9 Possib
Town and Country Shoes /	201 N. Missouri Sedalia, MO	Mr. Charles Rayl Mr. Ken Grott	826-4490	Yee Small	K-12 Yes
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NAME	ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	FIELD TRIP	GROUP SIZE	grade Level	guest speakei
Tullis Hall Dairy Co.	541 E. Fifth Sedalia, 500	Mr. Funnell	826-3030	Yes	10	3-12	No
Tygar: & Arth Body Shop	207 E. Belle Marshall, MO	Mr. Ray Arth	886-3033	Yes	25	7-8	Yes
Union Affiliation Building & Trades Council	1614 W. 20th Sedalia, MO	Mr. Ray Hendricks	826-7539	No '	Prophysions .	8-12	Yes
Unitog	Warsaw, MO	Mr. Osborne McMillen	438-5117	Yes	Arr.	7-12	No
Verl's Amoco Service	1801 W. Broadway Sedalia, MO	Mr. Verl Schnepf	827-0040	Yes	1-10	8-12	No
Veterinary	Cole Camp, MO	Dr. Taylor	668-4523	Possibly			Possibl
Veterinary Department University of Missouri	46 Connaway Annex, Cont. Education in Veterinary Medicine Columbia, MO 65201	Ms. Betsy Windish	314-882-3877	Yes	<u>3</u> 0	7-12	Possibl
Veterinary	1701 W. Main Sedalia, MO	Mr. Charles Peacock	827–2057	Possibly		6-12	Yes
Viebrocks Welding	Cole Camp, MO	Mr. Harold Viebrock	668-3233	Yea			No •
Vogue Styles	22 Jefferson Marshall, MO	Mrs. Howell	886-6161	No		7-12	Yes
W-K Chevrolet Garage	Cole Camp, MO	Mr. Vern Dean	668-4421	Yes	4-6	9-12	Possibl
Walker Publishing Co.	2016 W. Main Sedalia, MO	Mr. Mark Kitcl	826-8200	Yes	13	5-12	Yes
Warren Grocery	Green Ridge, MO	Mr. Warren	527-3317	Possibly			Possibl;
Warsaw Auto Supply	Wersaw, MO	Mr. Stan Intelman	438-7321	Yes	Small	1-14	Nc
Warsaw Sewing Center	Warsaw, MO	Mr. Jerome Kelly Mr. Donald Prunty	438-6919	Yes ,	6	8-12	Possibl
Warsaw Veterinary Clinic	Warsaw, MO	Dr. N. V. Roff	438-7333	Yes	8	8-12	.ve
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name	ADDRESS	CONTACT REPRESENTATIVE	TELEPHONE	FIELD GROUP TRIP SIZE	GRADE LEVEL	guesi speakr
Weikal Cabinet Shop	2925 W. Main Sedalia. MO	Mr. Boo Welkal	827-1363	Possibly	K-1?	Possit
Welder	Route # Sedalia, MD	Mr. Jarold Welch	826-3170	Possibly	8-12	Pose1b
Western Auto	Jefferson à Morgan Marshall, MG	Mr. Gerald Leach	886-6813	Possibly	7-12	Possib
Whiteman Base Exchange	Whiteman ASS Knob Noster, Mi	Sase Operator	563-5511	4.5 1.		•
Wilken Music	Thompson Eille Sedalia, NO	Me. Chen	826-9356	ïes 10	4-12	Yea
Williams Press	Cole Camp, Mo	Mr. Ceorge Williams	668-4418 547-3911	Yes	9-10	Possib
Wilson's Company, Inc.	Box 349 Marshall, Mo	Mr. Don Nutten	886-5522	Possibly 12	7-12	Fossib
Wood & Huston Bana	27 North Street Marshall, MG	Mr. Mitchell	886-5575	Yes 25	7-9	Yes
Yeager's Cycle Sales	3001 F Limit Sedalia, MO	Mr. Rick Yeager	826-2925	Yes 1-15	8-12	ЙО
Yost Chevrolet	Odell Avenue Marshall, MO	Mr, Ken Yost	886-3348	No	7-12	Yes
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