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#### ABSTRACT .

The first page of this list of requirements for elementary science teachers lists overall course objectives for a Teacher Corps science education course. Next are instructions for learning to use the Science Teacher Observation Rating Form, followed by an analysis of each item on the form, instructions for scoring it, and a copy of the form itslef. The next part contains objectives for the student to complete in order to become familiar with three new science programs. This part also contains the forms to complete in order to examine each program. The final part concerns teaching techniques. It lists requirements that must be met and contains several forms for the student to complete. (RC)

# TEACHER CORPS ELEMENTARY SCIENCE EDUCATION REQUIREMENTS EDE 560

University of Florida Lynn Oberlin Spring 1973 EMPORIA KANSAS STATE COLLEGE TEACHER CORPS RESOURCE CENTER

ITEM. NO. \_173

The student will:

FOR INSPECTION ONLY

- 1. demonstrate knowledge of science content by taking a standardized general science test and obtaining a score at or above the 75th percentile for end of the year ninth grade students. (See Science Content Module for Elementary Teachers.)
- 2. learn to use the Science Teacher Observation Rating Form (STORF) and demonstrate competence observing two of the pre-recorded STORF tapes. He will then use the STORF with two video tapes of his own teaching and write a short paragraph for each, analyzing his teaching behavior.
- 3. learn about new programs in elementary school science (SAPA, ESS, SCIS) by using introductory material, and examining and performing the activities for six units. This must include all three programs.
- 4. develop plans and materials, and use the following techniques in teaching science to children:
  - a. Science Center Component
  - b. Counterintuitive (Discrepant Events)
  - c. Pictorial Riddles
  - d. Open-ended Investigation
  - e. Inductive Teaching

To demonstrate competence in each of the above techniques, the stud will provide a video tape of his teaching, using the plans and materials he d veloped, for each of the techniques. (Five tapes in all.)

- 5. plan and teach a science <u>UNIT</u> (several lessons) to children. The following must be provided for:
  - a. Active involvement of children
  - b. Differing achievement and ability levels of children
  - c. General student planning
  - d. Student choices
  - e. Student planned inquiry
  - f. Use of manipulative materials
- 6. teach a <u>UNIT</u> (several lessons) of one of the new programs (SAPA, ESS, SCIS) to children. Activity #3 is a prerequisite.
- 7. demonstrate competence in the "Progresses of Science" by obtaining a score of 80% or above on the post test for The Processes of Science: A Modular Approach.

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EDUCATION & WELFARE
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#### EDE TEACHER CORPS

#### LEARNING TO USE THE SCIENCE TEACHER OBSERVATION RATING FORM (STORF)

The student will learn to use the Science Teacher Observation Rating Form (STORF) and demonstrate competence observing two of the pre-recorded STORF tapes. He will then use the STORF with two video tapes of his own teaching and write a short paragraph for each, analyzing his teaching behavior.

To complete this activity the student must:

- Read and understand the direction booklet for the STORF. (Ask questions if there is anything that is not clear to you.)
- Use the STORF with any two of the following tapes.
  - A. STORF Training Tape = Kindergarten Situation
  - B. STORF Training Tape = First Grade Situation
     C. STORF Training Tape = Third Grade Situation

  - D. STORF Training Tape Fifth and Sixth Grade Situation

#### THESE TAPES MAY BE VIEWED IN THE MICRO TEACHING LAB. 219 NORMAN HALL.

- Record himself (on dideo tape) teaching science at two different times. Each session should be about 20 minutes in length.
- Use the STORF to observe both of these tapes.
- Hand in the following items as evidence of the completion of this learning activity.
  - Two copies of the STORF used to observe the STORF Training Tapes, with the following information on the back of each (upper right hand corner).
    - 1. Your name
    - 2. Date observed
    - STORF TAPE number
    - Grade level observed
    - Score 5.
  - B. Two copies of the STORF used to observe your science teaching situations with the following information on the back of each (upper right hand corner).
    - 1. Your name
    - 2. Date recorded
    - 3. Date observed
    - 4. Tape identification (title and part of tape)
    - 5. Grade level and school
    - Score
  - C. Two short paragraphs enalyzing your science teaching situations. (One paragraph for each). Be sure to use the results of the STORF in these analyses.

#### Directions for SCIENCE TEACHER OBSERVATION RATING FORM # (STORF)

# Developed in the College of Education at the University of Florida by Lynn Oberlin

This form was developed as an instrument to help observe teachers working with children in the area of science. Value judgements are not made as to good and bad practices but practices are looked at as being different. On the left hand side of the instrument is Behavior A and on the right hand side is Behavior B. Behavior A is experimental and Behavior B is traditional. No teacher fits entirely within Behavior A or entirely within Behavior B. The general behavior pattern is determined by the number of items checked under Behavior A compared with the number of items checked under Behavior B.

This instrument is used in teacher education to help people who are going to be teachers look at different kinds of teacher behavior. In looking at different kinds of teacher behavior, the future teacher may begin to identify with a certain kind. He may find the kind of person he would like to be. At this stage, he can see in one column the things he would do much of the time and in the other column the things he would do much less frequently.

#### ROOM OBSERVATION

The room observation is made when the room is first entered. Some of the items are starred. A starred item is one that must be marked and it must be marked in only one column. For example, item Number 1, Behavior A, says "the room has a science corner or table." Under Behavior B it says "the room has no science corner or table." One



or the other has to be true. Put a check in the total column in either Behavior A or Behavior B. One column must be marked but not both.

#### BEHAVIOR A

#### BEHAVIOR B

#### Item 1

\*1. Room has a science corner \*1. Room has no science corner or table.

What is being asked is whether there is a place in the room where science things and materials are kept; and where children can work on science. It might be a corner or table; or it might be a shelf, counter, or other location.

#### Item 2

\*2. Student made or brought in \*2. There is little or no student material is in evidence. made or brought in material.

This item refers to all kinds of materials. They do not have to be related to science. These materials must be evident from just looking around the room. If 0, 1, or 2 items are seen, it is interpreted as "little or no material" and recorded as Behavior B. If 3 or more items are seen it is recorded as Behavior A.

#### Item 3

3. Original art work of pupils 3. "Pattern" art work in evidence. displayed.

The third item is not starred. It may be checked in either column, both columns, or not checked at all. Original art work means things that children have drawn or created themselves. Pattern art work includes traced material, cut out patterns, and pictures—all ready drawn which



students color. Art work does not have to be related to science.

The entire ROOM OBSERVATION section is omitted when the teacher being observed is in someone else's room over which she has no control.

#### TEACHER-STUDENT OBSERVATION

Items 4 through 21 are timed. After the room observation is completed, observe what happens in the room for five minutes. At the end of five minutes stop observing and spend two minutes recording what has been seen in column 1, items 4 through 21. Observe for another five minutes. After which, stop observing for two minutes and record the observations in column 2. Observe for another five minutes and then record these observations in column 3.

The starred items on Teacher-Student Observation are numbers 4, 5, 6, 7, and 8. Each of those items must be checked for each observation in either Behavior A or Behavior B; one or the other but not both.

Items which are not starred may be checked in either column, both columns, or not checked at all.

#### Item 4

\*4. Teacher brings other subject \*4. Teacher does not bring other matter into lesson (math, soc. subject matter areas into studies, lang. arts, etc.) lesson.

Behavior A must be demonstrated by content matter from some area such as mathematics, social science, or language arts being included as a part of the lesson. It must be there for instructional purposes and not just used for punishment or class control. Behavior B is an absence of Behavior A.



#### Item 5

\*5. Students can work at their \*5. All students proceed at same own pace. rate.

If the majority of students can work at their own pace it is Behavior A, if not, it is Behavior B.

#### Item 6

\*6. Students share their experiences. \*6. No sharing of experiences evident.

Behavior A means that students are sharing experiences with each other and <u>not</u> just answering teacher initiated questions. The opportunity must exist for a majority of the class to participate, although it is not necessary for them to do so during the observation period. Anything less than what is mentioned above is considered Behavior B.

#### Item 7

\*7. Students are active participants. \*7. Students listen only.

This item refers to the majority of the class.

#### Item 8

\*8. Students have a chance to \*8. Students have no chance to follow their own interests. follow their own interests.

Score this item as to whether the majority of the class has a chance to follow their own interests.

#### Items 9 - 21

These items are <u>not</u> starred. For each observation period, both Behavior A and Behavior B may be checked, either may be checked, or neither may be checked. If <u>any</u> evidence of a described behavior is observed, it should be checked.



#### Item 9

9. Teacher engages in student 9. Teacher refrains from involveactivities. ment in student activities.

If the teacher engages in a student activity, Behavior A is checked. Behavior B is checked when there is, a student activity in which the teacher does not become involved.

#### Item 10

- 10. Teacher has individuals doing different work.

  10. Teacher has all students doing same assignment.
- If the teacher has several individuals doing different work,

  Behavior A is checked. When most students are working on the same

  assignment Behavior B is checked. Both behaviors may be checked during

  the same five minute period.

#### Item 11

11. Teacher asks open questions. 11. Teacher asks closed questions.

Open questions refer to questions which do not have just one correct answer. These are also called divergent type questions. Closed questions are questions which have just one correct answer. These are also called convergent type questions.

#### Item 12

- 12. Teacher asks questions not directly answerable from textbook.
- 12. Teacher asks questions which can be easily answered if student has studied the lesson.

This item has to be answered from evidence which is seen during the five minute observation period. If the teacher asks a question and the student reads a statement directly from the textbook in answer to that



question, obviously this is Behavior B. Behavior B also includes questions answered by facts which appear to have been learned by text-book reading. If the type of question the teacher asks cannot be answered with just textbook knowledge, it is Behavior A.

#### Item 13

13. Teacher questions miscon- 13. Teacher permits formation ceptions.

This cannot be observed unless some misconception comes about and is identified by the observer. Then, if the teacher questions the misconception in any way this is Behavior A. When the teacher permits the misconception to stand and lets the youngsters believe the information to be true, this is Behavior B.

#### Item 14

14. Teacher encourages guessing or hypothesizing.

14. Teacher expects students to know and NOT guess.

When the teacher encourages the student to try to answer a question by guessing or by trying to figure out the answer, this is Behavior A. Behavior B is exhibited when the teacher expects only the right answer to the question to be given and expects the student not to give an answer unless he is sure that it is correct.

#### Item 15

15. Teacher refrains from judging 15. Teacher passes judgment on student's behavior or work. student's behavior or work.

Judging a student's behavior or work refers to a teacher telling a student that his work is good, poor, he is a very good student, he is



misbehaving, or has been very bad that day. A statement similar to these is evidence that a teacher is passing judgment on a student's work or behavior.

#### Item 16

16. Students read material from 16. Students are assigned to read different sources. from same book.

If students are seen to be reading from different sources during the five minute observation time, this is Behavior A. If any time during the five minute time students are assigned to read the same materials this is Behavior B. For Behavior B it is not necessary for the entire class to be assigned to read the same material but only for a majority of the students to be assigned the same material.

#### Item 17

17. Students' questions answered by other students.

17. Students' questions answered by teacher.

This is a matter of looking at each question asked, by a student, to see who is answering it. Both Behavior A and Behavior B are often exhibited within the same five minute period.

#### Item 18

18. Students conduct experiments 18. Teacher or student demonstrations individually or in groups. for entire class to watch.

When students take an active part in an experiment, either individually or as a part of a group, it is Behavior A. If students are watching a teacher or another student do a demonstration, it is Behavior B.

#### Item 19

- 19. Students design their own experiments.
- 19. Students perform textbook experiments.

Behavior A is evidenced by the students designing their own experiments. Behavior B means that students perform experiments furnished to them in a textbook or some other source.

#### Item 20

20. Students' questions shape the direction direction the lesson takes.

Teacher determines direction of lesson.

What seems to determine the direction in which the lesson proceeds?

If Behavior A is evident, student's questions have some effect on the direction that the lesson takes. As Behavior B is evident, student questions have no effect on the direction that the lesson takes and it continues onward in a predetermined direction. Both Behavior A and Behavior B may be evidenced within the same five minute period.

#### Item 21

- 21. Teacher's non-verbal cues provide positive reinforcement for students.
- 21. Teacher's non-verbal cues provide negative reinforcement for students.

Non-verbal cues include everything except the spoken word. A smile, a pat on the back, a pleasing gesture, a frown, or a clenched fist are examples of non-verbal cues.



#### SCORING THE STORF

The Science Teacher Observation Rating Form (STORF) is scored in the following way. Behaviors observed in the three observations are totaled in the right hand column for Behavior A and in the left hand column for Behavior B. As "Room Observation" takes place only once, each check scores as one. All 21 items are totaled and the amount recorded in the appropriate place at the bottom of the page. The score is obtained by adding 100 to the Behavior A column and then subtracting the Behavior B column from it.

Score = 100 + A - B

Scores above 100 tend to indicate experimental type behavior (A) and scores below 100 tend to indicate tradition type behavior (B).

# SCIENCE TEACHER OBSERVATION RATING FORM # (STORF)

# Developed in the College of Education at the University of Florida by Lynn Oberlin

BEHAVIOR B

21 items)	<u>ا 0 -</u>	20.0 Students' questions shape the direction the lesson takes.	dents design their own expo	18. Students conduct experiments individually or in groups.	17. Students' questions answered by other students.	1	15. Teacher refrains from Judging student's behavior or work.	,	13. Teacher questions misconceptions.	answerable from textbook.	Teacher asks	10. Teacher has individuals doing different work.	9. Teacher engages in student activities.		Students are active participants.	Students share their	*5. Students can work at their own pace.	brings other subject matter	TEACHER-STUDENT	3. Original art work of pupils displayed.	*2. Student made or brought in material is in evidence.	X	Tot   1   2   3   Tot   1   2   3   Tot   Tot	MOOD
(TOTAL - 21 items)	reinforcement for students.	IGACIMEL OCCUMENTAGE OF TOWN OF TO	Students perform textbook experi	Teacher or student demonst	17. Students'	16. Students are assigned to read from same book.	behavior or work,	guess.	Teacher permits formation of misconce	answered if student has s	. Teacher asks	assignment.	student activities.	own interests.		No sharin	udents	matter areas into lesson.	OBSERVATION	XXXX 3. "Pattern" art work in evidence.	brought in material.	Room has no science corner or table		PRIMATION REHAVIOR R

\*Single answer required

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#### 3. WORKING WITH THE NEW SCIENCE PROGRAMS,

The student will learn about the new programs in elementary school science (SAPA, ESS, SCIS) by using introductory material, and examining and performing the activities for six units. This must include all three programs.

NOTE: The terms "AAAS" or "SAPA" are used interchangeably.

The student will become familiar with three (SAPA, SCIS, ESS) of some thirty new, experimental elementary science programs. Each program has a unique philosophy as the "best" approach to having children learn science. It should be hoped that no one program would be satisfactory to the teacher for use as it stands, but that it would serve as a guide for constructive, productive, enjoyable science teaching and learning. Reflect on the strengths and weaknesses of each activity (program) and how you might improve it.

The following approach may be used to properly complete the assignment:

- 1. Report to the microteaching lab, room 219, and view the videotaped presentation on each of the programs.
- 2. Upon completing #1, you are in a position to work with the program materials. At manuals and MOST ESS and SCIS materials are located in offices 173-175. SAPA manuals are in those offices but ALL materials are in the laboratory room, 174 Norman. The "A" materials (Kindergarten or first grade) are located at the northwest end of the room; "B" materials (first or second grade) are located at the extreme southwest end in the cabinet; and "E" materials (fourth or fifth grade) at the northwest end by the door.

Work does not have to be done in our science lab <u>if</u> you have the program materials available from another source. Some of these may be available at the school in which you are working.

Additional directions to the programs are found in the respective manuals.

- 3. A unit for our purpose of study will be:
  - A. The activities in a SINGLE SAPA manual (many manual in each "A", "B", "E" box).
  - B. The activities in a single packaged unit for ESS and SCIS.

    NOTE: Some SCIS and ESS units are very long. On these, it is recommended that you spend no more than 40 minutes per activity.
  - C. For the ESS material, "Attribute Games and Problems," any two activities will count as a unit. All four activities may be written up as two unit.

4. On completion of EACH activity fill out a report form and when ALL six reports are completed, turn them in stapled in the upper left hand—corner. Included with this should be a statement that you have completed #1 above. Report forms are included in this packet. Extra forms may be obtained from the instructor or lab essistant.

# Examination of New Programs

Name				Date	
Program: SAPA		s (Cimala	anal		
			. 3		
Unit	(Complete -	Namo Numb	or lovel	etc )	
	(complete -	Name, Numb	er, Lever	, e.c.,	
Activities Perform	med at	(name)		School or	Norman Science
	r				
Activities Perform	med				
		- <u></u>			
Critique of Unit			<b>V</b>	:	
			`\ `\		

#### 4. TEACHING TECHNIQUES

The student will develop plans and materials, and use the following techniques in teaching science to children:

- a. Science Center Component
- b. Counterintuitive (Discrepant Events)
- c. Pictorial Riddles
- d. Open-ended investigation
- e. Inductive Teaching
- Read the sections in the books as listed below. These books will be on reserve in the Education Library. Another copy will be available at Teacher Corps headquarters in Building K.
  - Carin, Arthur and Sund, Robert. <u>Teaching Science Through Discovery</u>.

    Columbus, Ohio: Charles E. Merrill, 1970.

    Counterintuitive p. 130-132

    Pictorial Riddles p. 132-134
  - Friedl, Albert E. <u>Teaching Science to Young Children: The Inquiry Approach Applied</u>. New York: Random House, 1972.

    Counterintuitive p. 5-11.
  - Piltz, A. and Sund, Robert. <u>Creative Teaching on Science in the Elementary School</u>. Boston: Allyn and Bacon, 1968.

    Counterintuitive p. 131-140

    Pictorial Riddles p. 140-143
- View the video tape "Science Teaching Techniques for Elementary School Teachers." It is available at the Micro Teaching Laboratory, 219 Norman Hall.
  - NOTE: This video tape is still in production. If you need to complete this activity before it is ready, you may use the following as an alternative to item 2 above.

Listen to the tape "Teaching Techniques". It is available at the Media Center, 229 Norman Hall. There is also a copy that you may listen to during scheduled open labs in 174 Norman Hall. Another copy will be left at Teacher Corps headquarters in 203 Building K.

- 3. Forms that you must fill out are in this packet. Extra forms may be obtained from the instructor.
- 4. If at the point it is not change what you are to do, ASK THE INSTRUCTOR FOR HELP. This may be done change a schedules open lab of in the instructor's office.



- 5. Plan activities for the teaching techniques. Before putting much time on this, check with the teacher you are working with to see if you may try the teaching techniques in her room. Find out what her plans are so that your material will fit into the teacher's overall goals.
- 6. Turn in your forms for the five teaching techniques you have completed and the form which lists the five video tapes. These should be clipped or stapled together in the upper left hand corner. Be sure that your team leader has signed the teaching technique forms.

# EDE 560 TEACHER CORPS Science Teaching Techniques

#### Identification of Video Tapes

Mark all tapes with your name, my name (Oberlin) and a title.

Teaching Techniques	Tape Title	Location of Materials on the tape.
		ı
s between.		
techniques here with spaces		
s here w		
5 technique		
List		

## Science Center Component

ame	
tle of science center component	
escription	
hat is learned by using this component?	
	,
chool Grade (s)	
umber of students	
eacher Corps student's evaluation of the use of the science center	component
ith children	
re other teaching techniques used in this lesson? If so,	what?
The Other teaching teems ques used in this vesses	1
his science center component was used in the above named school or	1
mig governor deficer competient has about in the about hames believed	(date)
ignature - Teacher Corps Student Signature - Team Leader	



# Couterintuitive (Discrepant Events)

Name
Discrepant event
How was it used in helping children learn science?
School Grade (s)
Number of students
Teacher Corps Student's evaluation of the use of the discrepant event with child-
ren
Are other teaching techniques used in this lesson? If so, what?
This discrepant event (teaching technique) was used with children in the above
named school on(date)
Signature - Teacher Corps Student Signature - Team Leader
The team leader may list comments on the other side of this sheet.



#### Pictorial Riddles

wame	
Description of pictorial r	riddle (s) (attach if possible)
What science did the picto	orial riddle (s) help children to learn?
H <sub>2</sub> and the second sec	
How was (were) the nictori	ial riddle (s) used with children?
low was (were) the proton	rai riddie (sy dsed wrth chridien.
	•
	Grade (s)
Number of students	
Teacher Corps Student's ev	valuation of the use of the pictorial riddle (s) with
children	
	<u>.</u>
	· · · · · · · · · · · · · · · · · · ·
Are other teaching technic	ques used in this lesson? If so, what?
The pictorial riddle (s) v	was (were) used with children in the above named
school on(date)	en e
(date)	
Signature - Teacher Corps	Student Signature - Team Leader
The team leader may list o	comments on the other side of this sheet.



# Open-ended Investigations

Name	<del></del>	·
Description of the open-ended	d investigation	
	·····	
	4	
now is it open-ended?		
√hat science does it help chi	ildren learn?	
How was the open-ended invest	tigation used with c	hildren?
iow was the open-chaca mivest	-	
		<del></del>
	2	
School	Grade(s)	No. of students
Teacher Corps Student's evalu	uation of the use of	the open-ended investigation
with children	· ,	
·		
	<u>, , , , , , , , , , , , , , , , , , , </u>	
Are other teaching techniques	s used in this lesso	on? If so, what?
	·	
This open-ended investigation	n was used with chil	dren in the above named school
on	•	
	Sig	nature - Team Leader
eacher Corps Student's evaluate ith children	Grade(s)  uation of the use of  s used in this lesso  n was used with chil  Sig	No. of students the open-ended investigation on? If so, what? dren in the above named schoo

ERIC Full Text Provided by ERIC

## Inductive Teaching

ame	
escription of inductive teac	ching sequence
<u></u>	
hat are the specifics?	
	dren discover?
	Grade (s) No. of students
	·
Teacher Corps Student's eval	uation of the inductive teaching lesson with child-
ren	
	/
<u> </u>	<u></u>
Are other teaching technique	es used in this lesson? If so, what?
•	
This industive teaching was	done in the above named school on
inis inductive reactiffing was	done in the above named school on (date)
Signature - Teacher Corps St	tudent Signature - Team Leader
The term leader may list com	mments on the other side of this sheet.
the feam reader may 1125 com	



## 5. PLANNING AND TEACHING A SCIENCE UNIT

The student will plan and teach a science <u>UNIT</u> (several lessons) to children. The following must be provided for:

- a. Active involvement of children
- b. Differing achievement and ability levels of children
  - c. General student planning
  - d. Student choices
  - e. Student planned inquiry
  - f. Use of manipulative materials

Name	
Title of Unit	
Description of Unit	
How does the unit provide for:	
Active involvement of children?	
	*
Differing achievement and ability levels of children?	
General student planning?	
Student choices?	
Student Chorces:	



Student nlanned	linguiry?		
Student praimes			
		<del> </del>	
4		<del></del>	
Use of manipula	itive materials?		
•	•		
	<del></del>		
School		Grade (s)	
	· · · · · · · · · · · · · · · · · · ·		,
Number of students			
Teacher Corps Stride	ent's evaluation of	the use of this unit w	with children?
•			
<del></del>			
		·	
			4
	<del></del>		
			<u> </u>
· · · · · · · · · · · · · · · · · · ·			
	•	rps student to childr	
inis unit was taug	ne by the reacher co	ips student to enite	ch de the days,
named school on th	e following dates: _		· · · · · · · · · · · · · · · · · · ·
•			
<del></del>			
			-
Signature - Teache		Signature - Tea	

The team leader may list comments below or on the other side of this sheet.



# 6. TEACHING FROM NEW PROGRAMS

No	
vame	
Jnit	(CompleteName, Number, Level, etc.)
	•
Activities,	
School	Grade(s) No. of Students
	ent's evaluation of the activities used with children
leacher corps stud	lent's evaluation of the activities used with shirteren
leacher corps stud	

The team leader may list comments on the other side of this sheet.

