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ABSTRACT

This paper, presented in an outline format, provides general suggestions for the format of classroom tests and offers guidelines for adapting commercial tests that accompany textbooks for students with disabilities. Suggestions include, for example, using visual prompts to focus attention on important words, symbols, or procedures; and not requiring use of a separate answer sheet. The paper then presents tips for constructing specific types of tests, such as fill in the blank, multiple choice, matching, true-false, math computations, and structured essay. Eighteen short tests are appended as examples of test construction strategies. (JDD)

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BAD TEST . . . GOOD TEST:

DESIGNING CLASSROOM TESTS TO ACCOMMODATE DISABLED LEARNERS

PRESENTED AT THE

COUNCIL FOR EXCEPTIONAL CHILDREN ANNUAL CONVENTION DENVER, COLORADO

by

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April 7, 1994

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) "

مهد	multiple Choice_	••	Communication of the Communica
	Having information about yoursel	f is called	Use Answer Sheet.
•	a) self-concept - b) self-knowledge	c) self-discipline d) value	DO NOT MARK ON TEST!
2.	When you cannot live out what yo	u would like to do, you are us	ingly True or Feder
	a defense mechanism called a) displacement b) rationalization	c) projection d) self-knowledge	1. Stroke volume decreases when you have a regular exercise pr
3.	When you have a good self-concep		2. Exercise can help keep blood pressure normal.
	a) loser b) day-dreamer	c) meture person d) winner	3. LDLs do not help prevent atheresclerosis. "
4.	A measure of your physical, ment	al, and social growth is your c) maturity	4. Regular exercise can help you maint
	b) self-concept	d) rationalization	S. Cardiovascular fitness cam .
5.	Something you work toward continua) displacement b) value	ualiy is a c) goal d) change	1. Peer pressure > person.
6.	The effort you make to work on yo	our plass and male te	
	a) self-discipline b) self-concept	c) a value d) adjustment	Name: Na
.7.	A term which means an adjustment	to daily pressures is called	negt -
	a) rationalization b) displacement i	c) compensation d) a defense mechanism	TIONS: Write the letter of the Designangenum Is or for "Life Is sweet at kumansenum have a the Africa had before Mell's birth have a theast Asia had before doctor utheast as la had before mark
A.	Substituting one behavior for and		recoled 18
	al companyables	c) dist	he letterylas
	-, sen-uncept	-~/ _\	ke thine e mant
9.	All of the following are example: a) displacement	OR Sweet at Kumansenu'	TIONS: Write Is sweet at kuma. The for Is sweet
	a) displacement b) compensation The feeling yral self-dir b) self-dir	YOR 13 Sweet at Kumanser 10R 10R 10R 10R 10R 10R 10R 10	atons: on the a
	The feeling ym	eweet TREC	in ho.
	a) self-dir English (a)	13 St. OTCE DIV	life is
4	"LITE	CHO.	11/3
	en you exerc	TIPLE	ng for ica a la had before Mell's cheast Asla had before Mell's litheast Roland before Mell's litheast Roland before Mell's har hark in large been born been been born been been been been born been been born been been been been been been been be
. A	regular exercis.	Mor	ns After As metor
	heart b)	The sesou	theast had be ten of mar.
	herosclerosis is a	The 50	rica sola cy witecla.
	tery walls. carbon b) fat	7. B. 4	it. Butain a spo
	substance in the blood	·c·	ide in ien th
· A	substance in the blood posits in arteries is		Wied ston w
a)	a LDL' b) oxygen	The	been born been born been been born been born been born born been born been born been been born been been born been born been been born born born born born born born bor
. Th	e amount of blood pumped by	2. A.	been as clesolo, Mesinici
- a)	stroke volume	B.	De led sent al su or comme days a
-	heartbeat	, c	workerningionner there a ree at
l	A term used in connection with	-	let gon feet abiline of for the one "t
	a) positive pressure b) negative pressure	_ 7	been horn we lerk dier of Meji's ty community of been horn we less of community of the service o
	The smoke a smoker inhales direct	.5 .	B. pho telly lived tell glong not be
_	smoke.	ıy	thirden store with a decision has a says she tor his old string be with a three says she tor his old string be with the says she tor his old string be with the says she tor his old string be to
	a) mainstream b) sidestream	c) ,	men gaya here si. his olds w,
:. 1	A person addicted to alcohol is c a) bum b) drunk	alled a	hiled stole wit. hiled stole wit. been horn been horn he is governed as a clerk dier he i
	o/ Graik		A. B. say son see s ft.
	The smoke inhaled by a nonsmoker of the smoke inhaled by a nonsmoker of the smoker of the smoker of the smoker	is called c) downstr	A. When says she should tell no one says she should tell no one says she she should tell ends will be to his crowds. A. B. gays she she should tell no one says she she should tell ends will be so his triends walk wants traid his seashore forest so hates crowds. S. B. hates crowds walk seashore forest through will age achor to his season of the says she should be so the says she she should be says the says she she should be so the says she she should be says the says she she she she she she she she she sh
. 1	each of the following terms applied	•	wan attockow a we rest
ā	a) addiction b) not curable	c) treatable	E. Men. 15 tes l'ior shor for
. #	cigarette will burn for approxis		5. B. hat a Asi gearby
	0) 8	c) 12 ——	S. Mejl wantafraid hos walk walk wantafraid hos for est for est for a hore for est for a hore for est for est for a hore for est fakes as the searby father's through will age father's through will all the so for the form of the so for the father is the father in the father's father is the father
. \$	Smokeless tobacco is tobacco that a) chewed b) eaten	is snuffed or	reji alorougivii a tati
	of chemed by eaten	c) put in a pipe d)	Men. the the duly
. (Compared to nonsmokers, smokers had influenza by ulcers	ive a higher rate of	6. B. to ting it disthe
	of dicers	C) heart disease d) ost	3. After gad if he to his father and seems of the seems o
F	1eads to accidents because RIC ime.	it affects coordination &	2 Liter gao if Theo in wis
Full To		c) sleeping d) attracti	3 After garlife to my
		·	7

<u>Acknowledgement</u>

I wish to express my deepest appreciation to Judy Wood, Professor, Virginia Commonwealth University. In the early 1980s I attended one of Judy's inspiring and practical workshops on adapting evaluation materials. I immediately began to collect samples of inappropriate classroom tests actually used in public schools. These now serve as the introduction to our test adaptation demonstration. I also frequently refer to Judy's materials in my special education classes at Radford University. So thanks so much, Judy Wood, for guiding many professionals in improving assessment practices in the public schools.



DESIGN AND MODIFICATION OF CLASSROOM TESTS

I. GENERAL SUGGESTIONS FOR FORMAT

A. Do not crowd items.

- 1. Allow adequate margins.
- 2. Allow adequate space between items.
- 3. For some students, severely limit the number of items on a page.

B. Provide neat, readable copies.

- 1. Handwriting, either cursive or manuscript, must be legible, i.e., conform to standard writing quality.
- 2. Use a ruler for all hand drawn lines.
- 3. Use a typewriter or computer to prepare tests when possible.
- 4. Darken copies as needed, using darkening function on xerox machine.
- 5. Enlarge print as needed, using copier function, for students with visual impairments.
- 6. Discard smudged, blurry, or faded test pages replace with clean, clear pages.

C. Give clear, short directions, using simple words.

1. Provide a written example of response if answer format is complex or unfamiliar.

D. <u>Selectively use visual prompts to focus attention on important words, symbols, or procedures.</u>

- 1. Use a colored pen to underline, highlight, or circle a word.
- 2. Use the "bold" function on the computer.
- 3. Capitalize or underline special words on typewriter, computer, or by hand.



E. Put a colored border around test page.

1. The easiest way to do this is to staple or tape test page to sheet of construction paper. The "boundary" seems to help some students focus better on the task.

F. Keep all test items of the same type together on page.

1. Try not to have more than two item types on a page. If you must, e.g., half a page of true-false and half a page of fill in the blank, then clearly separate them with a line and the new directions.

G. Do not require use of separate answer sheet.

- 1. Permit disabled learners to mark the answers on the test itself.
- 2. If there are choices, permit students to cross out those they know to be wrong.

H. Present content in a clear, straight-forward manner.

- 1. Use simple, important words.
- 2. Eliminate unnecessary words.
- 3. Occasionally you may need to add a more familiar synonym, in parentheses, for a more difficult proper term.
- 4. Use simple direct sentence structure, e.g., subject, verb, direct object.
- 5. <u>Do not use</u> tests that require the unscrambling of letters in words to get the right answer.
- 6. In general, design relative short tests.

II. ADAPTING COMMERCIAL TESTS (those accompanying adopted textbooks)

A. Xerox test pages, then cut apart sections and enlarge if necessary to increase readability.

1. Inappropriate or poorly constructed sections or items may also be deleted by the cut-and-tape method.



B. Mark out sections or items on test that student does not need to complete.

- 1. On true-false or for any format, you may want to mark out every other item.
- 2. Parts or half of certain types of sections may be crossed out.
- 3. For multiple choice, cross out one or two distractors, leaving 2-3 reasonable choices.
- 4. For matching, cross out extra distraction or choices if they occur.

C. <u>Direct attention to key words and directions</u>.

1. See I. - D. above.

D. Redesign the commercial materials.

- 1. Make a simplified, parallel version of the same test.
- 2. Redesign selected sections to increase clarity and reduce complexity of the response task.

III. FILL IN THE BLANK

- A. Use a word bank in box at top of page; do not include distractors.
- B. Section must be complete on a single page.
- C. Include no more than ten sentences.
- D. Make "fill-in" lines in sentences of uniform size and long enough for large handwriting.
- E. Modified Fill in the Blank: provide two choices in parentheses under the blank (or beside the blank).
 - The students ____ understand. (do, does)
 - John _____ a cold. (has, have)



IV. MULTIPLE CHOICE

Α.	Place	the	choices	vertically.	not	horizontally.
4 14	LIUC	шC	CHOICO	vertically,	HOL	потимпина.

a. ____

b. ____

d.

B. Underline key words - like only, except, not.

C. Have no more than four (4) choices.

D. Avoid "all of the above," "none of the above," "a and b only."

V. MATCHING

A. Include no more than 8-10 items.

B. All items must be on one page.

C. Usually, the left column should have the shortest cue, e.g. name or fewest words (Example: 1. ____ Einstein).

D. Do not add extra distractors.

E. Permit students to cross out items as they use them.

VI. TRUE - FALSE

A. Put "T F" at left side of statement; students circle their choice.

B. Avoid double negatives.

C. <u>Underline</u> key words like <u>always</u>, <u>never</u>, <u>not</u>, <u>except</u>, and so forth.

D. Write clear, simple, absolute statements.



E. Modified true-false:

<u>Directions</u>: Only <u>one</u> statement is true in each of the sets of sentences below. Put \underline{T} in the blank beside the true statement.

Example: A. T A cold is a communicable disease.

B. Colds are caused by too much exercise.

1. a. Tapeworms are roundworms

b. Athlete's foot is caused by a fungus.

2. a. Periodontal disease is a disease of the gums.

b. A sticky film of harmful bacteria on the teeth is called caries.

3. a. (continue)

b.

VII. MATH COMPUTATIONS

- A. Lin.it the number of problems on a page.
- B. Leave sufficient space for calculations.
- C. Draw boxes around the problems and spaces, i.e., separate problems.
- D. Give example of the expected format and answer treatment.
- E. Test items should have same format as was taught.
- F. Color code, highlight, or underline operation signs (+ x :).
- G. Arrange math problems from simple to complex.
- H. Provide algorithms or formulas.



VIII. STRUCTURED ESSAY

A. Provide the general topic statement of the essay as well as subtopics.

- 1. list the minimum ingredients that you wish to have included in the essay.
- 2. <u>example</u> of an essay topic: "Compare appropriate and inappropriate teacher-made tests for students with disabilities."
- 3. the above statement does not give sufficient direction even for a professional like you as to the teacher's expectations
- 4. it is important to state the additional subtopics that must be addressed
- 5. <u>Subtopic example</u>: "At minimum, discuss the following: five general rules for designing appropriate tests, at least three types of tests with examples of effective and ineffective formats, and how "bad tests" and "good tests" affect the students who must take them."
- 6. Some experts say to eliminate the essay test for students with disabilities and to use only objective tests.

We suggest that this approach might be discriminatory. Students with disabilities need to have the opportunity to develop higher level cognitive skills and, in Virginia, to gain essay writing experience in order to be successful on the writing section of the Literacy Passport Test.

However, students need to be <u>taught</u> essay writing strategies <u>before</u> they are tested by means of this format. They need extensive direct instruction, guided practice, and feedback in order to develop writing skills.



HEALTH TEST	NAME:
CHAPTER 2	DATE:
Read the followin	g statements. On the line to the left write the
word TRUE if the	statement is true or the word FALSE if the
statement is fals	e •
1.	Pets can sometimes help meet some people's needs.
2.	A friend is a person who is not liked.
3.	A. Carl
	A friend is someone who meets some of your needs.
4.	A friend should help you feel important.
5.	In some ways, pets and friends are similar.
6.	It is not important to keep old friends.
7.	Friends should share different ïdeas.
8.	Sharing what you think and feel with another
	person is called communication.
9.	Repeating what others have told you in confi-
•	dence is an important communication rule.
10.	Being grateful means being thankful



MATH 8 DIVISION	TEST	

NAME:	
DATE:	

DIRECTIONS: Divide these problems. Place the remainder on the line after the letter R. If there is no remainder, write O after the R. See the EXAMPLE in the first box. Remember the steps in division:

MULTIPLY, SUBTRACT, BRING DOWN DIVIDE EXAMPLE 0 4 13293 R_ 2 (3) 8 3478 9 4571 4 (5) 7 7654 6 4578

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Name X

True/False

for each state ant as to the law or legal requirement indicated. For the sections below, circle T or F applies

PL 94-142 (EHA - 1975) requires:

- of parents rights for procedural due process students with handicaps H
- IEP to be prepared for qualified students [z H 2
- with students all \mathbf{for} required mainstreaming handicaps Ŀ Ξ
- transition services must be stated on the IEP ہتا Ξ
- disabled students from birth through age 21 will be served ы
- in English students must be tested in achieve standardized results referred order to [] H

9

2

- parents will pay reasonable transportation costs to get their children to and from school H H
- T F requires "child find" activities

. ω 6

the IEP will describe the students present level of functioning [L H

. ლ

ADAPTED TEST*

III. Applying Concepts

A student is preparing gelatin (Jello) with fruit by the following recipe. Choose the correct word to fill in the blank after each step. Choose your answers from the word box.

mixture	heterogeneous	compound
homogeneous	physical	
STEP ONE: Boil one cup of water. 1. The water is a	\/	
STEP TWO: Pour gelatin mix into 2. The dry gelatin mix is a		ure.
STEP THREE: Add the cup of boilifully dissolved. Then stir in or 3. The bowl now contains a	ne cup of cold water.	
STEP FOUR: Refrigerate for two h	nours. The gelatin will thic	cken.
STEP FIVE: Drain the fruit cockt Stir gently and refrigerate one 5. The gelatin with fruit is a _	hour or until gelatin is co	chickened gelatin. ompletely set.

* This adapted test was based on a very complex and confusing commercial test.



Unit Test 2	Name:				
English 10R	Date:				
Directions:	Choose the correct word from the WORD BANK and write it next to the phrase that defines it.				
foreshadowin protagonist conclusion					
1.	The underlying main idea of a story.				
2.	The chief character of a story				
3.	Settles the outcome of a conflict.				
4.	A technique used by a writer to give the reader hints as to what will happen next.				
5.	Sets the stage for the action that will follow by introducing characters and/or describing the setting for the story.				
6.	Stops the action.				
7.	Order in which events occur in a story.				
8.	Make the problem more difficult to solve.				
ġ.	Presents the opposing forces at the peak of their struggle.				



World Geography Chapter 7 Test	Name	
Fill in the blanks using words	from the word bank.	
WORD BANK! earthquakes coral Carib Volcanic o	Arawak ash fertle	
1. Some Caribbean islands are 2. The Indians 3. Volcanic eruptions can a 4 adds mine 5 soil is ric 6. The India	erals to soil.	
Fill in the blanks using word. WORD BANK Canal plantation Creole conuco system	independent nation	
12 is a land 13. A is a lar	way of farming. Iguage spoken in Harti. Inge farm where one crop is grown. Ountry that governs itself. Its the Atlantic and Pacific	

SCIENCE TEST
CHAPTER 7

DATE:

ENERGY OXIDATION GEOTHERMAL
LIGHT KINETIC ELECTRICAL
HEAT CHEMICAL

FILL IN THE BLANKS BELOW WITH WORDS FROM THE WORD BOX. EACH WORD IS USED ONLY ONCE.

1.		energy	is	used	to	make	things	br	ighter.
2.		is c	alle	ed ·	the	abi	llity	to	move
з.		energy	is	used	to	make	thing	ζS	warmer.
4.	·	energy	· is	s us	ed	bу	your	m	uscles
5.		energy	is	tra	nsfe	rred	throu	ıgh	wires
6.		energy	r i:	s ca	lled	ene	ergy (of	motion
7.		is h	neat:	ed w	ater	ins	side ·	the	earth
8.		occurs	s a	s ox	ygen	ı io:	ins ot	her	matter

sentence the that completes word best the Choose a cell membrane through pass can food, water

animal one-celled ๗ S H paramecium man,

cells ΟÉ billions) (hundreds, Of made are Xon . ო

grouped together are that kind same the Of Cells 4.

form a (tissue, organ)

bigger smaller, 100k A microscope makes things ა .

(water, food Chlorophyll helps plants make . و

English 10R		Name:	<u>-</u> -
"Life is Sweet	at Kumansenu"	Date:	
MULTIPLE C	HOICE DIRECTIONS:	Write the letter of on the line provide	of the best answer led.
A. B.	setting for "Li South Africa Southeast Asia Africa	fe is Sweet at 1	Kumansenu" is
A. 3.	died in infanc been stolen by	ad before Meji's y a witch doctor a special mark	s birth have all
A. B.	worked as a government cle professional s photographer	rk oldier	
A. B.	says he will p asks her to wa	others of Mejicay for a community for three day deteil no one at	ity celebration
A. B.	wants to see h	is decision is dis old friends he friends will be	vans
A. B.	takes Asi for along the seas through a near to the village	hore by forest	
7. After A. B. C.	sad as if he will	father's grave, die soon himself father than ever	£
A. B.	departs from h at noon at dusk at daybreak	ls father's hous	зе
A. B.	s death is cau drowning poisoning	-	



Science		
Name		
Date		
Directions: Put the letter of the cobefore the statement. USE EACH LETT	orrect answer in ER ONLY 1 TIME.	the blank
makes algae green and helps them make food	A. B. C.	great white shark whale chlorophyll
most dangerous shark	F.	pollution starfish
animal that is destroying some coral reefs because it feeds on living coral animals		toothed holdfast
used for food for most ocean animals		
a problem facing animals and plants that live in the ocean		
largest living animal		
one group of whales		
one part of a rockweed		

Finish each statement in Group A with words from Group B. Write the letter of the correct answer on the blank Line.

Group A

Group B

1. Number of players on a team is

A. 3

2) Number of points in a game is _____.

(B.) 2

3 Only the team can score.

C. Clockwise

The ball is hit hard into the opponents court from above the net. O Spike

(F) Serving

5. A team rotates in a manner.

(E.) 6

6) A team must win by at least ____ points.

(G) 15

7) Number of hits allowed to get the ball over the net.

(3) A player can not hit the ball

H Twice In A Row

Matching:	Fi	11 in the blank with the appropri	ate	e matening
letter.				
	1.	The smallest whole part of	Α.	protoplasm
	,	a living thing.	в.	microscope
	2.	The control center of the cell.	c.	cell
	3.	The division of two full-grown	D.	nucleus
		cells into two cells.	E.	cell wall
	4.	The instrument that makes	F.	red-blood cell
		things: 100k bigger.	G.	cell membrane
	5.	The clear liquid inside cells.	н.	cell-division
	6.	Helps protect plant cells		
-	7.	Bends easily and is a very thin	-	
		cell cover.		
·	8.	It has no nucleus and is being	•	
	•	made all the time.		

PART C: TRUE OR FALSE QUESTIONS.

Circle "TRUE" if the statement is <u>COMPLETELY</u> true or circle "FALSE" if the statement is false.

1. The liberties which mattered most to Americans were the right to taxation by consent, the right to a representative legislature, and the right to trial by a jury of one's peers.

TRUE FALSE

2. At the First Continental Congress the leading "radicals" pushing for the most direct expression of grievances were from the Middle Atlantic colonies.

TRUE FALSE

3. Lord Dunmore's proclaimation helped to undermine support for the patriot cause in colonies dominated by tobacco or rice planters.

TRUE FALSE

4. The British "southern strategy" was doomed to fail because there were very few Loyalists in the Carolina and Georgia upcountry, from the beginning of the war.

TRUE FALSE

5. Most Americans during the "critical period" of the 1780's supported the move to form a more nationalist and stable Federal government.

TRUE FALSE

6. Virginia was the fourth state to ratify the Federal Constitution.

TRUE FALSE

7. The term Federalists meant the same, and applied to the identical number of people in 1787-1788 as did in 1797-1798.

TRUE · FALSE

8. 1796 was the first presidential and Congressional election in which there were two distinct political parties; outgoing President Washington preferred the election of Thomas Jefferson to John Adams, but the people decided otherwise.

TRUE FALSE

Directions: Write fact or opinion by the sentence.
REMEMBER: A fact is a statement that can be checked. An opinion is a judgement or belief.
Examples: 1. Cats are the best pets to have. Opinion 2. Florida is a state. Fact
1. Spinach juice has more vitamins than soda has.
2. I think spinach juice tastes better than soda.
3. Eating ants is disgusting.
4. Retaetna spells anteater backwards.
5. Europe is a continent east of the Atlantic Ocean.
6. Everyone wants to visit Europe.
7. Blue is a much better color than yellow.
8. It takes one hundred pennies to make \$1.00.

Name _

MATH TEST

CHAPTER 3

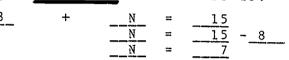
NAME:____

DATE:____

.7

DIRECTIONS: FOLLOW THE DIRECTIONS TO FIND THE NUMBER (N) IN THE PROBLEMS BELOW.

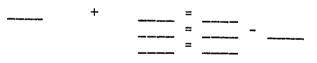
EXAMPLE: Eight more than a number is 15.



1. Five more than a number is 11.



2. Four more than a number is 8.



3. Nine more than a number is 10.

4. Three more than a number is 5.

Name Date_	
------------	--

Solve the problems for Roman Numerals and Numbers.

35 +V VIII 8	1V +
+ <u>VI</u> +	VIII + □
955 25 27 27	- <u> </u> - <u> </u>
	-\ <u>\</u> -\\

Math Facts Test Addition and Subtraction

Name	
Date	



Solve the problems.
REMEMBER: There are addition and subtraction facts. WATCH THE SIGNS!

10 + 2	10 - 4	5
<u>+</u>	+ 7	5 +8
8 + 5	15 - 2 29	16

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Chapter 7 Test

Name____

1 What fractional part is shaded?

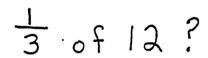


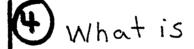
What fractional part is shaded?



____5

3 What is





1 of 15?

5 Complete:

$$\frac{12}{16} = \frac{6}{8} = \frac{4}{4}$$

O Complete: