Name	Class_	Date	
Skills Worksheet			
<b>Chapter Re</b>	view		
USING VOCABULARY	1		
water are l mean?	nydrogen and oxygen," wered to elect	ce "The constituent eleme that does the word <i>constit</i>	
Complete each of the word bank.	following sentences by c	hoosing the correct term fr	om the
compound	element	solution	
solute	nonmetal	metal	
<b>2.</b> A(n)	has a defir	nite ratio of components.	
<b>3.</b> A(n)	is a pure s	ubstance that cannot be b	roken
down into simple	substances by chemical	means.	
<b>4.</b> A(n)	is an elem	ent that is brittle and dull.	
<b>5.</b> The	is the subst	ance that dissolves to form	m
a solution.			
<b>a.</b> All of th <b>b.</b> Element	he following statements e particles in the same e ts can be broken down in	lement are different. nto simpler substances.	
<b>d.</b> Element	ts have unique sets of prots cannot be joined in ch	emical reactions.	
<b>7.</b> Which of the <b>a.</b> element <b>b.</b> mixture		c. compound d. solution	
<b>8.</b> An elemen <b>a.</b> metal. <b>b.</b> metalloi		energy well and is easily sl c. nonmetal. d. None of the above	haped is a

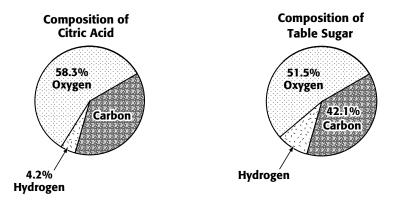
Name	Class	Date
Chapter Review continued		
<b>9.</b> Which of the following substances only by chemical <b>a.</b> sodium <b>b.</b> salt water	-	ed into simpler

## **Short Answer**

## **INTERPRETING GRAPHICS**

The pie graphs below show the composition of citric acid and table sugar by element (percentage by mass).

Use the pie graphs to answer the next three questions.



**10. Analyzing** What is the percentage by mass of carbon found in citric acid?

11. Identifying	What is the difference between the percentage of hydrogen in
citric acid	and the percentage of hydrogen in table sugar?

**12. Comparing** Citric acid and table sugar are compounds. How can you tell from the pie graphs that citric acid and table sugar are not the same compound? Explain your reasoning.

13. Comparing	What is the difference between an element and a compound?			

Class	Date
lissolved in aceto ?	ne, which substance is the
made out of 14-ka urat gold a pure su	arat gold, which is an alloy of ubstance?
- I	issolved in aceto?

## **WRITING SKILLS**

**16. Communicating Concepts** On a separate sheet of paper, write an essay that could clearly explain to a third grade student the difference between elements, compounds, and mixtures. Your essay should have a thesis statement and include examples that support your ideas. Finally, make sure that your essay has a conclusion sentence.

Name	Class	Date
Chapter Review continued		
CRITICAL THINKING  17. Concept Mapping Use the followelement, compound, mixture		ate a concept map: $matter$ ,
<b>18. Making Inferences</b> A light gree off, and the powder becomes does the green powder belong	a black solid. In w	nich classification of matter

Naı	ne	Class	Date
C	hapter Review continued		
19.	<b>Applying Concepts</b> Explain t an example of a mixture.	wo properties of mix	tures using a fruit salad as
20.	Forming Hypotheses Temper become less soluble as temp ated beverages after they have erator or in a cabinet? Explain	erature increases. To ve been opened, sho	-
21.	Analyzing Ideas Both carbon carbon and oxygen, but they compounds differ from each	are not the same co	

hap							
	ter Review continued						
	<b>Plying Concepts</b> When hydes to the atoms of the hyd				ct to fo	orm wat	er, what h
ERF	PRETING GRAPHICS						
	Vent did an experiment t				a com	pound. '	The data
	were collected using 100 e table below to answer	_			.c		
; tilt			<u>-</u>				
	Temperature (°C)	10	25	40	60	95	
	Dissolved solute (g)	150	70	34	25	15	
For	ming Hynotheses   Isa a c	omniitar	or orai				
Dr.	ming Hypotheses Use a c Vent's results. Examine t rease or decrease the tem	he graph	. To inc	erease t			
Dr.	Vent's results. Examine t	he graph	. To inc	erease t			
Dr.	Vent's results. Examine t	he graph	. To inc	erease t			
Dr.	Vent's results. Examine t	he graph	. To inc	erease t			
Dr. incr	Vent's results. Examine t	he graph nperature	To inc	of wat	er were	e used i	nstead of
Dr. incr	Vent's results. Examine to rease or decrease the tenderese	he graph nperature	To inc	of wat	er were	e used i	nstead of
Dr. incr	Vent's results. Examine to rease or decrease the tenderese	he graph nperature	To inc	of wat	er were	e used i	nstead of

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Name Chapter Review continued	Class	Date
MATH SKILLS  25. Making Calculations What is solving 50 g of salt in 200 mL		
<b>26. Making Calculations</b> How ma of water to make a solution t work below.		must be dissolved in 150 mL ation of 0.6 g/mL? Show your
will perform each step. Expla	bbles. Carefully cor ain why you chose	nsider the order in which you