1	Vame	Class	Date
	Skills Worksheet		
Section States	Directed Reading A		

Section: Elements

B

- 1. Which of the following is NOT a physical or chemical change?
 - a. crushing
 - b. weighing
 - c. melting
 - d. passing electric current

ELEMENTS, THE SIMPLEST SUBSTANCES

- 2. A pure substance that cannot be separated into simpler substances by physical or chemical means is a(n)
- 3. A substance that contains only one type of particle is

PROPERTIES OF ELEMENTS

4. The amount of an element present does not affect the element's

Characteristic Properties

5. Why does a helium-filled balloon float up when it is released?

Colloon Floats due to the bensity of Halum being Less Dense than Air.

Look at each property listed below. If it is a characteristic property of elements, write CP on the line. If it is not a characteristic property, write N.

6. size

7. melting point

CP

8. density

Ņ

9. shape

11. volume

12. color

13. hardness

14. flammability

__**15.** weight

_**16.** reactivity with acid

Directed Reading A continued CLASSIFYING ELEMENTS BY THEIR PROPERTIES 17. What are some common properties that most terriers share? Small Short Hall 18. All elements can be classified as metals, metalloids, or Non Metals 19. An element that is shiny and that conducts heat and electric current well is a(n) 20. An element that conducts heat and electric current poorly, and can be a solid, liquid, or gas is a(n) 21. Elements that have properties of both metals and nonmetals are Metalloid. Indicate whether the description applies to a metal, a nonmetal, or a metalloid.
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are Metalloid
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lifetence striction and another appropriate
Write the correct letter in the space provided.
22. malleable a. metalloids
h nonmetals
23. dull or shiny
c. metais
B 24. poor conductors
24. poor conductors
24. poor conductors 25. tend to be brittle and unmalleable as solids
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Name	Class	-	Date	
Skills Worksheet				
Directed Reading A				
Section: Compounds				
1. List three examples of compound				
SAH,	Water	, Dugo		
		U		
COMPOUNDS: MADE OF ELEMENT	'S			
2. Which of the following is	NOT true abo	ut compound	ls?	
a. Compounds join in specb. The mass ratio of a spe				
c. Compounds are randon				
d. Different mass ratios m				
3. When two or more elements are j	oined by cher	nical bonds t	o form a new p	oure
substance, we call that new subst	ance a(n)	ompa	und.	
4. A compound is different from the	Fleme	en s	that	
reacted to form it.			_ 01000	
PROPERTIES OF COMPOUNDS				
12				
5. Which of the following star pounds?	tements is tru	e about the p	properties of co	om-
a. A property of all compo				•
b. Each compound has itsc. Compounds cannot be it		~ ~	Invanantiaa	
d. A compound has the sar				t.
6. Sodium and chlorine can be extre	mely dangero	us in their ele	emental form. S	So
how is it possible that we can eat	them in a com	pound?	17	
Compounds has	Je dit	4even	trope	rtio
than the Elen	vents	Hoat	react	·40
FORM H.				V
	der von der			······································

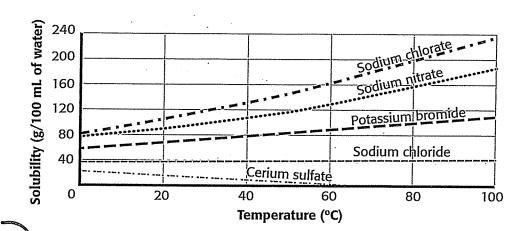
Name	Class	Date	
Directed Reading A continued			
Match the correct description with provided.	the correct term.	Write the letter in the space	
7. a poisonous, greenish y	vellow gas	a. sodium chloride	
8. table salt		b. chlorine	
9. a soft, silvery white me violently with water	tal that reacts	c. sodium	
BREAKING DOWN COMPOUNDS	3		
10. What compound helps give car		es their "fizz"?	
11. Which elements make up the compound that helps give carbonated beverages their "fizz"? Carbon Dugen Hydrogen			
- Car son jong	10-11-11		
12. The only way to break down a a(n) Chemical Ch		ough	
COMPOUNDS IN YOUR WORLD	-		
13. What compound is used drates? a. nitrogen b. ammonia c. hydrogen d. carbon dioxide	d by plants in pho	tosynthesis to make carbohy-	
14. Aluminum is produced by brea	king down the co	mpound	
		•	

Name	Class	Date
Skills Worksheet		
Directed Reading	A	
Section: Mixtures	•	
1. A pizza is a(n) MKLAN	2	
ROPERTIES OF MIXTURES		
2. A combination of two or more	substances that a	re not chemically
combined is a(n)	Ce.	· • • 3
3. When two or more materials co		y, they form a(n)
COMODINA	• •	
4. How can you tell that a pizza is	a misstara?	
A	• % •	LATER ALLAC ALLAN
Afor Carl See	2 WHY	ADVI GARD EAGA
component in	THE DIE	Lith "
5. Mixtures are separated through	Physic	A changes.
	g .	
atch the correct method of separa	tion with the eacl	h substance. Write the letter
the space provided. Each method	may de used only	y once.
6. crude oil		a. distillation
7. aluminum and iron		b. magnet
8. parts of blood		c. filter
		d. centrifuge
9. sulfur and salt		7 . L.
. Granite can be pink or black, de	epending on the	NATIO
of feldspar, mica, and quartz.		
NUTIONS		
DLUTIONS		
11. Which of the following is		
11. Which of the following is a. They contain a dissolv	ed substance call	

- c. They contain a substance called a solvent, in which another substance is dissolved.
- **d.** They appear to be more than one substance.
- 12. The process in which particles of substances separate and spread evenly through a mixture is known as .

Name		Date
Directed Reading A continued		
13. In a solution, the Solution	is the substance in whi	
14. Salt is Soluble i	n water because it diss	
15. In a gaseous or liquid solution, the greater than the volume of	lute	
a(n) A solid solution of metals or nonmark.	etals dissolved in meta	ls is
	r do because they are so whom are le out or	SO SMAIL
CONCENTRATION OF SOLUTIONS 18. A measure of the amount of solutions		
Concentration	·	
19. What is the difference between a concentration of the content		ite than
called Solute to dissolve called		temperature is
21. Solubility is dependent on	AN WAIT and	

Directed Reading A continued



22. Look at the graph. Which solid is less soluble at higher temperatures than at lower temperatures?

- a. sodium chloride
- b. sodium nitrate
- c. potassium bromide
- d. cerium sulfate

23. Look at the graph. Which compound's solubility is least affected by temperature changes?

- a. sodium chloride
- b. sodium nitrate
- c. potassium bromide
- d. cerium sulfate

Name	Class	Date			
Directed Reading A continued					
 24. Solubility of solids in liquids tends to with an increase in temperature. 25. Solubility of gases in liquids tends to with an increase in temperature. 26. What are three ways to make a sugar cube dissolve more quickly in water? 					
SUSPENSIONS 27. Which of the following does NOT describe a suspension? a. Particles are soluble. b. Particles settle out over time. c. Particles can block light. d. Particles scatter light. 28. Why are the particles in a snowglobe considered a suspension?					
dispersed					
COLLOIDS 29. What do gelatin, milk, and stick deodorant have in common? ALL COLOIDS					
Match the correct description with the correct term. Write the letter in the space provided.					
30. a mixture of two or mor dispersed substances 31. a mixture of particles the enough to scatter or block.	at are large	a. colloidb. solutionc. suspension			
32. a mixture of particles th small and well mixed	at are relatively				