Jame	Class Date
Skills Worksheet Chapter 4 -	- Elements, Compounds, and Mixtur
Directed Reading A	
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Section: Elements	
1. Which of the following is	NOT a physical or chemical change?
a. crushing b. weighing	
c. melting	
d. passing electric curren	
ELEMENTS, THE SIMPLEST SUBSTA	
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 o	ne type of particle is
a(n)	
PROPERTIES OF ELEMENTS	
	nt does not affect the element's
The amount of an element prose	Bulling the convention is the type or province;
5. Why does a helium-filled balloor	float up when it is released?
J. Willy does to iteliate interest of	vanidal och Care una USS '
and the state of t	- 160, 160 ton tong sik Agill
	en les Continues Clientes of less 22
Look at each property listed below.	f it is a characteristic property of elements,
write CP on the line. If it is not a cha	aracteristic property, write N.
6. size	12. color
7. melting point	13. hardness
8. density	14. flammability
9. shape	15. weight
10. mass	16. reactivity with acid
11. volume	Month lutimos sambae on come ere

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BER.	cted Reading A continued		Casalanawa (178
CLASS	SIFYING ELEMENTS BY 1	THEIR PROPERTIES	
	nat are two common prop		s share?
			elnemelii motte
-	recented change?	o lantevdq a BCD- et gan	1. Which of the follow
18. All	elements can be classifie	ed as metals, metalloids	s, or magnetical section
	element that is shiny and	d that conducts heat an	
20. An	element that conducts he	eat and electric current	poorly, and can be a solid,
liqu	uid, or gas is a(n)		
21. Ele	ments that have properti	ies of both metals and r	nonmetals
Indicat Write t	e whether the description he correct letter in the sp	n applies to a metal, a n ace provided.	onmetal, or a metalloid.
	22. are malleable		a. metalloids
	23. are dull or shiny		b. nonmetals
	24. are poor conductors		c. metals
	25. tend to be brittle and	l unmalleable as solids	
*	26. are always shiny		
	27. are also called semice		with CF on the li-a. If it is not
	28. are always dull		
	29. are somewhat ductile	9	
	30. include boron, silicon		
			ande S
	31. include lead, tin, copp	per	
	32. include sulfur, iodine,	, neon	eum âi

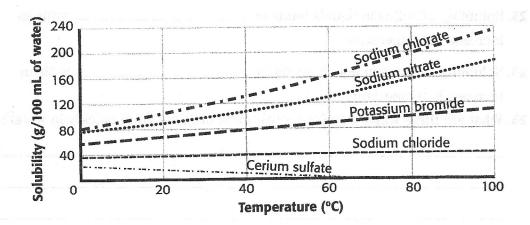
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Skills Worksheet			
Directed Readin	ng A		
Castian Campanda			
Section: Compounds			
1. List three examples of co	impounds you encounter	every day.	
		w 65 V gladek	
COMPOUNDS: MADE OF EL	EMENTS	o e <mark>rrodo resporado de la</mark> 1 espaia de populario de la composición	
	wing is NOT true about of elementary masses.	compounds?	
b. The mass ratio c. Compounds are	of a specific compound is e random combinations of ratios mean different con	of elements.	
3. When two or more eleme	ents are joined by chemic	al bonds to form a	new pure
substance, we call that no	ew substance a(n)		
4. A compound is different	from the	that	
reacted to form it.	Tarrett		ÇAÇE y
PROPERTIES OF COMPOUN	IDS 12.0550		
5. Which of the follo pounds?	owing statements is true a	about the properties	s of com-
a. A property of a	all compounds is to react	with acid.	
c. Compounds ca	nd has its own physical pr nnot be identified by the as the same properties as	ir chemical propert	ies. form it.
6. Sodium and chlorine can How is it possible that w	be extremely dangerous	in their elemental i	
			Appendix and the second

Name	Class	Date
Directed Reading A continued	700 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Constructive to the second of
Match the correct description wit provided.	h the correct te	rm. Write the letter in the space
7. a poisonous, greenish	yellow gas	a. sodium chloride
8. table salt		b. chlorine
9. a soft, silvery white m violently with water	etal that reacts	c. sodium
BREAKING DOWN COMPOUND	S	
10. What compound helps give ca	arbonated beve	
udta <u>r o'monce al quel se ll'aleccas</u>		CO GRESSOR STREET
	E APA SASSER	Taudi ni gathmasa
	compound that	helps give carbonated beverages
		E Vicentian of arow alements
The state of the s		an habilat ew yountsins
12. The only way to break down		
a(n)	_ change.	If arrest on featurery
COMPOUNDS IN YOUR WORLD)	
13. Aluminum is produced by bre	eaking down the	compound
14. Plants use the compound		o ila io grasgono A. s China china photografia a da ta
make carbohydrates.		III photosyntnesis to
ament Indianaska minet a marak		

Name Class	Date
Skills Worksheet	
Directed Reading A	
Section: Mixtures	
1. A pizza is a(n)	
PROPERTIES OF MIXTURES	
2. A combination of two or more substances that are	re not chemically
combined is a(n)	
3. When two or more materials combine chemically	, they form a(n)
4. How can you tell that a pizza is a mixture?	
	SCALLONNE SER PROGRESSO
5. Mixtures are separated through Match the correct method of separation with the each	
	h substance. Write the let
Match the correct method of separation with the eac in the space provided. Each method may be used on	h substance. Write the let y once. a. distillation b. magnet
Match the correct method of separation with the each in the space provided. Each method may be used onlong. 6. crude oil	h substance. Write the let ly once. a. distillation b. magnet c. filter
Match the correct method of separation with the each in the space provided. Each method may be used onle6. crude oil7. a mixture of aluminum and iron	h substance. Write the let ly once. a. distillation b. magnet
Match the correct method of separation with the each in the space provided. Each method may be used only 6. crude oil 7. a mixture of aluminum and iron 8. parts of blood 9. sulfur and salt	h substance. Write the let ly once. a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the each in the space provided. Each method may be used onlessed. 6. crude oil 7. a mixture of aluminum and iron 8. parts of blood	h substance. Write the let ly once. a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the each in the space provided. Each method may be used only 6. crude oil 7. a mixture of aluminum and iron 8. parts of blood 9. sulfur and salt 10. Granite can be pink or black, depending on the	h substance. Write the let ly once. a. distillation b. magnet c. filter d. centrifuge
Match the correct method of separation with the each in the space provided. Each method may be used only	h substance. Write the let ly once. a. distillation b. magnet c. filter d. centrifuge lutions? alled a solute. renly distributed substance vent, in which another su
Match the correct method of separation with the each in the space provided. Each method may be used only	h substance. Write the let ly once. a. distillation b. magnet c. filter d. centrifuge lutions? alled a solute. renly distributed substance vent, in which another substance.

Name	Class	Date
Directed Reading A conti		ie saeyinw glade
13. In a solution, the	is the su	ubstance that is dissolved,
	is the substance i	
	in water because it	
	liquids form a solution, the s	
	theals or nonmetals dissolved in	
17. What can particles in so	plution NOT do because they	are so small?
	Spready relainment	s but flow on you left that a
19. What is the difference b	etween a dilute solution and	a concentrated solution?
	dissolve in a solvent at a cer	
pressure is called		
		e, Granine con pe prob. or of feldman, mics, end c
		280710.00
e distributed substances. The substances in a back read on the substances.		

Directed Reading A continued



- **21.** 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
- **22.** 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

Directed Reading A continued	Discled Teadles A debin
23. Solubility of solids in liquids tends to	with an
increase in temperature.	
4. Solubility of gases in liquids tends to	with an
increase in temperature.	With all
5. What are three ways to make a sugar cube dissolution	ve more quickly in water?
	the many was true to
100 mm	
(22) Anglana (27.5)	
USPENSIONS	
26. Which of the following does NOT describe	a suspension?
75 7	
L T	
c. Particles can block light.	
d. Particles scatter light.	
	segment treedha 'a sodibar (des
	edo en haragoar Peddo markos is Transportados de diferencias de
OLLOIDS	Filtra murcon de
	Filtra murcon de
OLLOIDS	Filtre mureon de
OLLOIDS	Filtra murcon de
OLLOIDS 3. What do gelatin, milk, and stick deodorant have in the correct description with the correct term. W	n common?
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OLLOIDS 8. What do gelatin, milk, and stick deodorant have in the correct description with the correct term. Wrovided.	n common?
OLLOIDS 8. What do gelatin, milk, and stick deodorant have in atch the correct description with the correct term. Wovided. 29. a mixture of two or more uniformly dispersed substances	rite the letter in the space a. colloid
 OLLOIDS B. What do gelatin, milk, and stick deodorant have in atch the correct description with the correct term. Wovided. 29. a mixture of two or more uniformly dispersed substances 30. a mixture in which particles of a material 	rite the letter in the space a. colloid b. solution
OLLOIDS 8. What do gelatin, milk, and stick deodorant have in atch the correct description with the correct term. Wovided. 29. a mixture of two or more uniformly dispersed substances	rite the letter in the space a. colloid b. solution
8. What do gelatin, milk, and stick deodorant have in latch the correct description with the correct term. Wrovided. 29. a mixture of two or more uniformly dispersed substances 30. a mixture in which particles of a material are more or less evenly dispersed throughout a liquid or gas	rite the letter in the space a. colloid b. solution
OLLOIDS B. What do gelatin, milk, and stick deodorant have in atch the correct description with the correct term. Wooded. 29. a mixture of two or more uniformly dispersed substances 30. a mixture in which particles of a material are more or less evenly dispersed	rite the letter in the space a. colloid b. solution