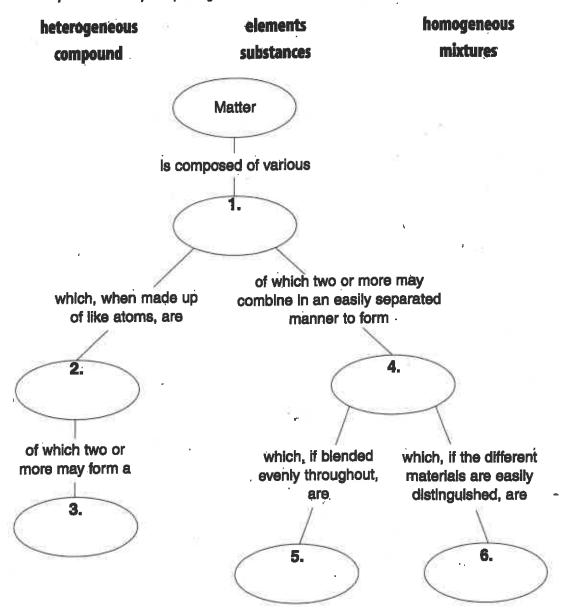


Overview **Classification of Matter**

CHAPTER 15.1 REVIEW

Directions: Complete the concept map using the terms in the list below.



Directions: Circle the term in parentheses that makes each statement correct.

- 7. A beam of light is (visible, invisible) as it passes through a solution, but (can, cannot) be seen as it passes through a colloid.
- 8. Appearance and behavior are (chemical, physical) properties.
- 9. The change of one substance to another is a (chemical, physical) change.
- 10. When substances go through a chemical change, mass is always (gained, lost, conserved).

Directed Reading for Section 1 = Composition of Content Mastery Matter

Directions: Choose the correct category from the	list for each item. Each category will be used more than once
1. chalk	a. element
2. copper	b. compound
3. granite	c. suspension
4. vinegar	d. heterogeneous mixture
5. pond water	e. homogeneous mixture
6. water	f. colloid
7. salt	
8. permanent press fabric	
9. soft drink	
10. paint	w)
11. gold	
12. a river delta	
13. fog	
14. gelatin	
15. lead	
Directions: Complete the sentences by writing the	letters of the correct terms on the lines provided.
16. All substances are built fro	om
a. elements	c. metal
b. atom	d. salt
17. A beam of light can be see	n as it passes through a(n)
a. colloid	c. element
b. solution	d. compound
18. A is a homogenous	mixture of particles so small they cannot be
seen and will not settle to	the bottom of their container.
a. colloid	c. element
b. solution	d. compound



Composition of Matter

Directions: Match the terms in Column II with the definitions in Column I. Write the letter of the correct term in the blank at the left.

Colum	n l			· · · · · ·	Column II					
1	1.	heterogeneous mixture co visible particles settle	in which	. Tyndall effect						
	2.	contains two or more gase substances blended evenly	ontains two or more gaseous, liquid, or solid ubstances blended evenly throughout the mixture.							
	3.	substance in which all ato	ms are alike		. heterogeneous mixture					
•	4.	any material made of two that can be physically sepa		ces	L mixture					
	5.	the scattering of light by c	olloidal particles		e. element					
	6.	heterogeneous mixture wi that never settle	th larger particle		E. suspension					
-	7.	a mixture in which differe easily distinguished	nt materials can		s solution					
	8.	homogeneous mixture of cannot be seen and will no of their container	particles so smal ever settle to the	l they bottom h	. homogeneous mixture					
	9,	substance in which two or combined in a fixed propo		are i	. compound					
Direction	15:	Fill in the table below with the	element below that	matches its descrip	otion.					
		silicon	lead	•	titanium					
		americium	aluminum		magnesium					
10. rad	ioa	ctive metal								
11. ben	dal	ole and resists corrosion								
12. four	nd į	n windowglass and compu	ter chips							
13. four	nd i	n chlorophyll								
14. use	d Ir	body implants								
15, has	a l	nlah density		56	J					

S U S



Directions: <i>Unscramble the statements and then of the statements and the statements are statements and the statements and the statements are statements are statements and the statements are statements are statements and the statements are statements and the statements are statements.</i>								_			nts. I	Vrite	the	tern	in th	e blan	ıks at i	the left	t of
g:	-	1.		- 7	7				m gui			has	dif	fere	ent n	natei	rials	that	
×=	-	2.				•						_					ll the		
	_	3.		•		_			a lic cles	_			oge	enec	ous 1	nixt	ure i	n	
		4. A(n) <i>ooudnmpc</i> is a material made from atoms of two or more combined elements.																	
-	S.	5.							a·sa eem	_		of m	natt	er a	ıre a	like,	that	kind	
	_	6.	A(1 ble		_		-					as t	two	or	mor	e sul	bstar	ices	
	-	7.	The call				_		_		col	loic	ls a	nd	susp	ensi	ons i	S	
		8.	Siz	e, sl	hap	e, a	ınd	me	ltir	ıg p	oir	ıt aı	re h	syp	ialc j	prop	ertie	s.	
	=	9.	A b	uri	nt o	bje	ct l	ıas	uno	derg	gon	e a	ahe	eicn	<i>ıcl</i> cl	nang	e.		•
	1		The gai													mass	is n	ot	
В	н	н	E	т	E	R	0	G	E	N	Ε	0	U	S	N				
. Т	Ε	0	P'	P	R	0	L	0	N	Z	Н	C	0	1	0				
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			0												N				
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LESSON 16.3 ELEVEL 1

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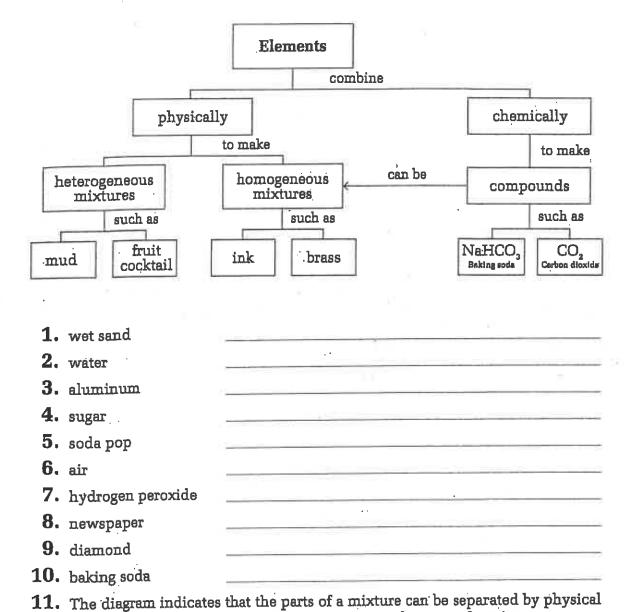
Mixtures and Compounds

1.	A physical combination of two or more kinds of mat-
	ter is called a
2.	A mixture is one in which the components
	are uniformly mixed together.a. heterogeneousb. homogeneous
3.	Elements and compounds are called
	substances because they cannot be separated by physi-
	cal changes.
4.	According to the concept map on page 393, both mix-
	tures and pure substances can be a. homogeneous b. heterogeneous c. compounds
5.	A mixture of elements can be separated physically. List the letters of the ways a mixture of elements
	could be separated. a. passing electricity through the mixture b. using paper chromatography c. filtering d. cooling the mixture
.	Electric decomposition of breaks it down
	into hydrogen and oxygen. a. any element b. any compound c. water
	You can tell from the formula H ₂ O that water has a
	a. one parts b. two parts c. three parts

Chemical Relations

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Use the diagram to help you classify some common items as heterogeneous mixtures, homogeneous mixtures, elements, or compounds.



- changes. Give two examples of ways to separate the parts of a mixture.
- 12. The elements that are combined in a compound cannot be separated except by chemical means. Give an example of a way to separate the elements in a compound.