Name:		Date:	Period:
Ch 15/Unit 3 Physical Scien	ce Study Guide		
1. Name the two types of pu	are substances:		
3	can be separated by phy		
4	uses physical changes	s to separate materials.	
5. Another name for a homo	geneous mixture is a		·
6. A heterogeneous mixture	whose particles are so small	l that they do not settle	out is a
7. A heterogeneous mixture	whose particles settle out w	hen it's not moving is	a
8. Elements, compounds, an	d solutions can all be descri	bed as	·
9. The scattering of light by	colloids is called the		·
10. When substances combined	ne to form a new substance,	a	change occurs.
11. When substances combined	ne but keep their own identi	ties, a	change occurs.
12. Identify the following as	physical or chemical prope	rties:	
	b. flammability e. fragrance		point form a new substance
13. Identify the following as	homogeneous (hom) or het	erogeneous (het) mixtu	ures.
a. rocky road ice cream	b. milk	c. soup	d. salad
e. tea	f. kool-aid	g. smoke	h. air
i. concrete	j. mayonnaise	k. fog	1. paint
m. brass	n. Coke		
14. Identify the following as	physical or chemical chang	ges.	
a. burning		b. melting	
c. freezing		d. cutting	
e. bending		f. sanding	
g. heating		h. conducting elect	tricity
i. forming a new compo	und		
**************	KNOW YOUR VOCABU	LARY!!!!**********	*****

Study Guide Answer Key

Ch 15/Unit 3 Physical Science Study Guide

1. Name the two types of pure substances: elements and compounds

2. State the law of conservation of mass: the mass of all substances present before a chemical change equals the mass of all the substances remaining after the change.

3. Mixtures can be separated by physical means.

- 4. Distillation uses physical changes to separate materials.
- 5. Another name for a homogeneous mixture is a solution.
- 6. A heterogeneous mixture whose particles are so small that they do not settle out is a colloid.
- 7. A heterogeneous mixture whose particles settle out when it's not moving is a suspension.
- 8. Elements, compounds, and solutions can all be described as homogeneous.
- 9. The scattering of light by colloids is called the *Tyndall effect*.
- 10. When substances combine to form a new substance, a *chemical* change occurs.
- 11. When substances combine but keep their own identities, a physical change occurs.
- 12. Identify the following as physical or chemical properties:

a. color	physica	l	b. flammability <i>chemical</i>	
c. freezing p	oint	physical	d. density	physical

- e. fragrance *physical* f. ability to form a new substance *chemical*
- 13. Identify the following as homogeneous or heterogeneous mixtures.

a. rocky road ice cream <i>heterogeneous</i> b. m		b. milk	heterogeneous		
c. soup	heterogeneous		d. salad heterogeneous		
e. tea	homogeneous		f. kool-aid	homogeneous	
g. smoke	heterogeneous		h. air	homogeneous	
i. concrete	heterogeneous		j. mayonnaise	heterogeneous	
k. fog	heterogeneous		l. paint heterogeneous		
m. brass	homogeneous		n. Coke homoge	neous	

14. Identify the following as physical or chemical changes.

a. burning	chemical	b. melting	physical		
c. freezing	physical	d. cutting	physical		
e. bending	physical	f. sanding	physical		
g. heating	physical	h. conducting electricity <i>pl</i>		physical	
i. forming a new compound <i>chemical</i>					