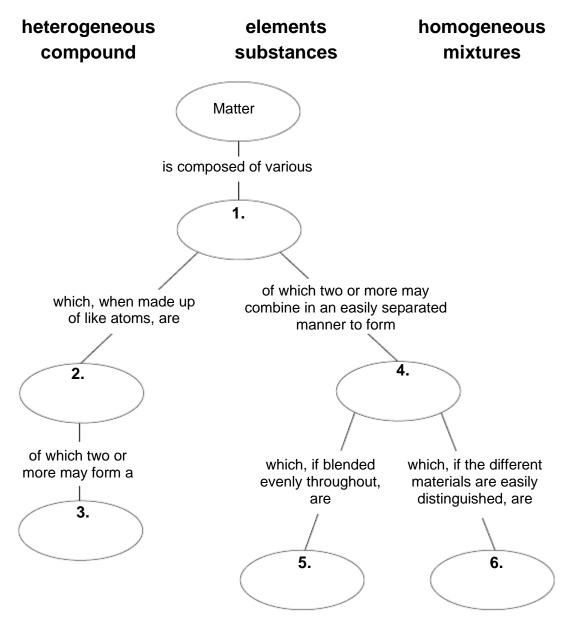


Classification of Matter

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 Matter

d. compound

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	
11. gold	
12. a river delta	
13. fog	
14. gelatin	
15. lead	
Directions: Complete the sentences by writing the letter	rs of the correct terms on the lines provided.
16. All substances are built from a. elements b. atom	c. metal d. salt
17. A beam of light can be seen as it	
a. colloid	c. element
b. solution	d. compound
is a homogenous mixt seen and will not settle to the bot	ture of particles so small they cannot be
a. colloid	c. element

b. solution



Section 2. Properties of **Matter**

Directions: Complete the paragraphs using the terms listed. Some terms may be used more than once.

liquid physical change chemical change mixture physical properties physical property distillation equals melting conservation of mass

Scientists try to explain how changes in substances take place. By applying energy	
you can tear a sheet of p	paper into pieces and cause a 1.
	_ in the paper. On a hot summer day, water vapor will
condense into water dro	plets on the outside of a glass of iced tea. The glass of iced
tea is a 2.	of sugar, tea, lemon, and water. Water is a clear,
colorless 3.	at room temperature. The words clear and
colorless describe two 4	•
of water. The melting of	f the ice in iced tea is a 5.
	·
In comparison, a 6	
produces new substance	es. When a candle burns, physical and chemical changes take
place. The 7.	of the wax is a physical change. The wick, as
it burns, combines with	gaseous oxygen in air. After the chemical change, water
vapor and carbon dioxid	le gas are formed. The mass of all substances before
a chemical change 8	the mass of all substances after a
	s called the law of 9.
To separate a solid fr	om a liquid, such as salt from seawater, a process using
the 10.	of boiling point called
11	is used

Key Terms **Classification of Matter**

Directions: Unscramble the terms in each of the following statements. Write the term in the blanks at the left of the statements and then circle the term in the word search puzzle.

- **1.** A(n) *ethgnesuoereo* mixture has different materials that can be easily distinguished. 2. A homogeneous mixture with particles so small they cannot be seen without a microscope is a(n) tuolsion. **3.** A(n) ssinnopseu is a liquid heterogeneous mixture in which visible particles settle. **4.** A(n) *ooudnmpc* is a material made from atoms of two or more combined elements. **5.** If all the atoms in a sample of matter are alike, that kind of matter is a(n) neemetl. **6.** A(n) *oogosuenehm* mixture has two or more substances blended evenly throughout. 7. The scattering of light by colloids and suspensions is called the *lyTdnal* effect. **8.** Size, shape, and melting point are *hsypialc* properties. **9.** A burnt object has undergone a *aheicmcl* change. **10.** The law of *ionrtcvaeson* of mass states that mass is not gained or lost during chemical changes.
 - G Ε O 0 D S O Ν S Т S