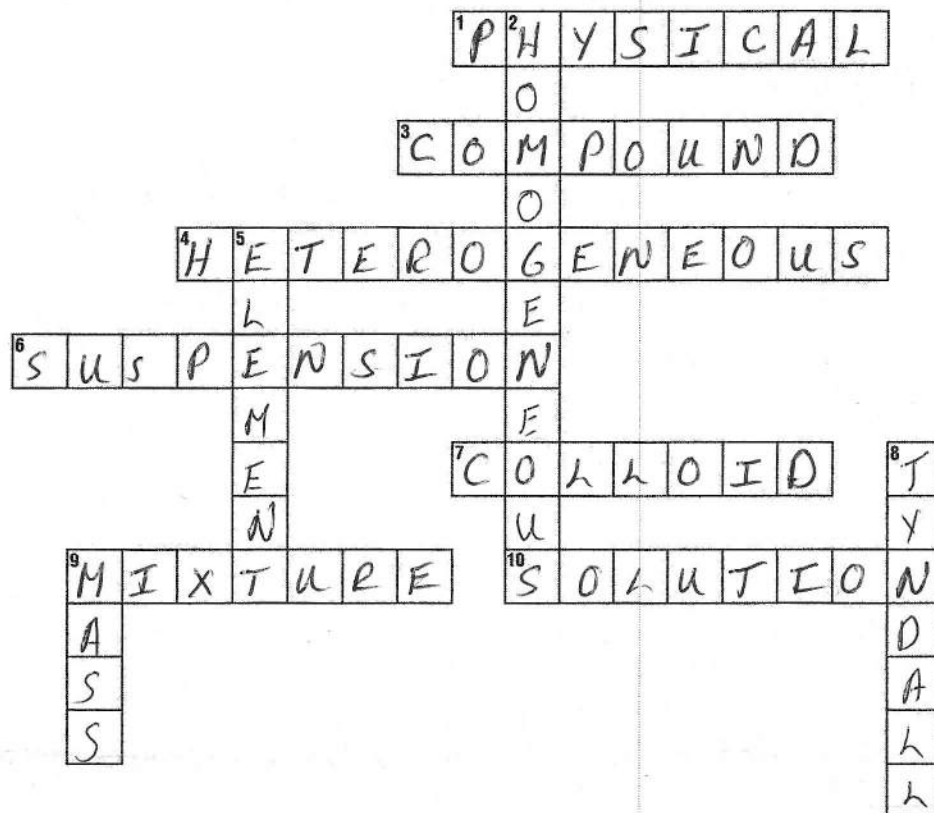


 Chapter
Review

Classification of Matter

Part A. Vocabulary Review

Directions: Use the clues below to complete the crossword puzzle.



Across

1. A change in size, shape, or state of matter
3. Substance in which two or more elements are combined in a fixed proportion
4. A mixture in which different materials can be easily distinguished
6. Heterogeneous mixture containing a liquid in which visible particles settle
7. Heterogeneous mixture with larger particles that never settle
9. Any material of two or more substances that can be physically separated
10. Homogeneous mixture of particles so small they cannot be seen and will never settle

Down

2. Mixture containing two or more gaseous, liquid, or solid substances blended evenly throughout
5. Substance in which all atoms are alike
8. Effect of scattering light by colloidal particles
9. Law of conservation of _____

Chapter Review (continued)

Directions: Find the mistakes in the statements below. Rewrite each statement correctly on the lines provided.

11. A burning candle is undergoing a physical change.
 chemical

12. Removing salt from water by heating the water until it vaporizes and leaves the salt behind is called suspension.
 distillation

13. An orange squeezed to make orange juice is an example of distillation.
 physical change

Part B. Concept Review

Directions: Determine whether the following mixtures are homogeneous or heterogeneous.

1. chocolate chip ice cream He

2. tap water Ho

3. milk He

4. smoke He

5. vegetable soup He

6. State the law of conservation of mass. This law applies to physical changes as well as chemical changes. With this law in mind, explain what happens to the mass of 18 mL of liquid water when it vaporizes to form about 22 L of water vapor.
 The only thing that is changed is the volume. because the particles are close

Directions: In the blank on the left, label each of the following as a physical property, physical change, chemical property, or chemical change.

7. sharpening a pencil PC

CP

8. flammability of a substance PP

PC

9. size of an object PP

PC

10. freezing point PP

CC

11. drawing copper into wire CC

PP

12. fragrant of a flower CC

PC