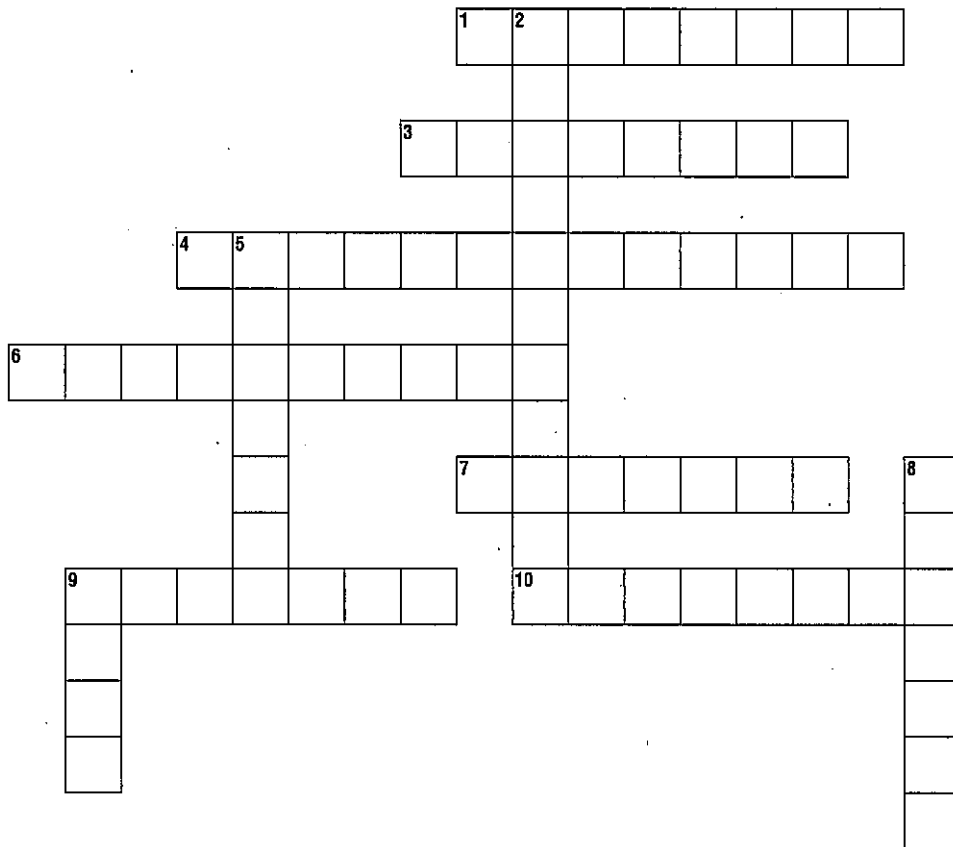


Directions: Use the clues below to complete the crossword puzzle.



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 _____

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.

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

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

Part B. Concept Review

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

1. chocolate chip ice cream _____

2. tap water: _____

3. milk _____

4. smoke _____

5. vegetable soup _____

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.

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

_____ 8. flammability of a substance

_____ 9. size of an object

_____ 10. inflating a tire

_____ 11. freezing point

_____ 12. drawing copper into wire

_____ 13. corrosion of bicycle frame

_____ 14. fragrance of a flower

_____ 15. formation of water when hydrogen burns

_____ 16. boiling water