Name: _____

Blk: _____

Phases of Matter: Understanding the Main Ideas

Complete the following chart.

Phase	Arrangement of Particles	Movement of Particles	Definite Shape?	Definite Volume?
Solid				
Liquid				
Gas				

Physical and Chemical Changes: Using the Main Ideas

Decide whether each statement describes a physical change or a chemical change. If it describes a physical change, write P in the blank before the statement If it describes a chemical change, write C.

_____ .1. A bicycle left out in the rain begins to rust

_____ 2. A match burns, leaving only a charred stick of wood.

_____ 3. A copper wire is cut into five smaller pieces.

_____ 4. An ice cube melts.

_____ 5. A glowing splint placed in a test tube causes a loud "pop."

_____ 6. Food coloring is added to cake icing to make it pink.

_____ 7. Gasoline burns in a car engine.

_____ 8. Antifreeze is added to a car radiator to lower the freezing point

_____ 9. A spoonful of sugar is dissolved in a cup of coffee.

_____ 10. A silver knife and fork tarnish when they are exposed to air for several weeks.

_____ 11. Leaves of a maple tree turn bright red as winter approaches.

_____ 12. A water molecule gains enough energy to enter the vapor phase.