

Student Name \_\_\_\_\_ Class Period \_\_\_\_\_ Today's Date \_\_\_\_\_

## **Copy and Summarize – Physical Science Topic 17**

### INSTRUCTIONS:

- Neatly print your full name, date, and class period at the top of this page, and on the back.
- On the back of this page – copy the text below. Then summarize the concepts in your own words.

## **Properties of Chemical Reactions and Conservation of Energy**

### *Physical Science Topic 17*

Chemical reactions always start and end with the same amount of atoms, though they will be arranged differently. Furthermore; how fast the reaction occurs, and if energy is stored or released is all determined by the collisions of the molecules that make up the chemical reaction. The number of collisions of molecules during a chemical reaction can be influenced by temperature as well as the amount of particles present during a reaction.

1. Although the substance changes forms, the atoms are still there. In a closed system you will see no change in mass.
2. A chemical reaction will only happen if a collision occurs, however more requirements, such as orientation and available kinetic energy, must also be met.
3. All matter is conserved, just broken apart and rearranged to form new molecules/substances.

Student Name \_\_\_\_\_ Class Period \_\_\_\_\_ Today's Date \_\_\_\_\_

**Copy the Text Here (Use Additional Sheet of Paper, if Necessary)**

**Summarize the Text in Your Own Words. (Use complete sentences).**