

## **Copy and Summarize – Physical Science Topic 22**

### 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.

## **Acceleration and Things That Cause Acceleration**

### *Physical Science Topic 22*

Applying a force to an object will cause acceleration. The size of this acceleration is determined by the mass of the object and the size of force applied. An applied force will cause a change in the types of energy in the system, therefore the energy found in waves and the interaction of waves and their environment will cause accelerations.

1. If a force acts on an object in the same direction as the direction of its motion, the object's speed will continue to increase while the force is acting.
2. Energy can be transferred from one system to another (or from a system to its environment) in different ways: by conduction, mechanically, electrically, or by radiation (electromagnetic waves).
3. Energy can be transferred within a system. Regardless of what happens within a system, the total amount of energy in the system remains the same unless energy is added to or released from the system.
4. Energy can be transformed (converted) within a system.

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).**