Physical Science Chapter 15 Notes Outline

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Energy – Pages 444-468**

15.1 Energy and Its Forms

Energy and Work-

 **Energy-**

**Kinetic Energy-**

**Potential Energy-**

 **Gravitational Potential Energy-**

 **Elastic Potential Energy-**

Forms of Energy-

 Major Forms of Energy:

 **1.** **Mechanical Energy-**

 **2. Thermal Energy-**

 **3. Chemical Energy-**

 **4. Electrical Energy-**

 **5. Nuclear Energy-**

**SECTION QUESTIONS**

**1. How is the kinetic energy of an object determined?**

**2. When you heat a pot of water over a flame, what form of energy is added to the water?**

**3. What kind of energy is represented by an archer stretching a bow string?**

15.2 Energy Conversion and Conservation-

**Energy Conversion-**

Conservation of Energy-

Energy Conversions-

 Energy Conversion in Pendulums-

 Energy Conversion in the Pole Vault-

 Energy Conversion Calculations-

Energy and Mass-

15.3 Energy Resources-

**Nonrenewable Energy Resources-**

 **Fossil Fuels-**

**Renewable Energy Resources-**

 **Hydroelectric Energy-**

 **Solar Energy-**

 **Geothermal Energy-**

Other Renewable Resources-

 **Biomass Energy-**

 **Hydrogen Fuel Cells-**

Conserving Energy Resources-

 **Energy Conservation-**