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-**