Physical Science Chapter 13 Notes Outline

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

**Forces in Fluids– Pages 390-407**

13.1 Fluid Pressure

**Pressure-**

Pressure in Fluids-

 **Fluid-**

Air Pressure and the Atmosphere-

**SECTION QUESTIONS**

**1. What must you know to calculate pressure?**

**2. What is the relationship between the depth of water and the pressure it exerts?**

13.2 Forces and Pressure in Fluids

Transmitting Pressure in a Fluid-

 Pascal’s Principle-

 **Hydraulic Systems-**

Bernoulli’s Principle-

 Wings and Lift-

 Spray Bottles-

**SECTION QUESTIONS**

**1. How does an airplane wing produce lift?**

13.3 Buoyancy-

Buoyant Force-

 **Buoyancy-**

 **Buoyant Force-**

**Archimedes’ Principle-**

Density and Buoyancy-

 Suspended

 Sinking-

 Floating-

**SECTION QUESTIONS**

**1. What determines if an object will float or sink in a fluid?**

**2. An empty oil tanker displaces enough water to support its weight. Why doesn’t the tanker sink when loaded with thousands of tons of oil?**