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?**