

AP PHYSICS ASSIGNMENT SHEET: SELF STUDY UNIT - FLUIDS

MR. DARLINGTON

Topic (Percent of AP Exam)	Reading HW	HW Problems	
II. Fluid mechanics and thermal physics (15%)			
10. FLUID MECHANICS (6%)		Chapter 10	
10.1 Density and Specific Gravity *Density and specific gravity are defined	10.1	<u>page 281</u> 2	2 WEEKS
10.2 Pressure in Fluids	10.2	14	
10.3 Atmospheric Pressure and Gauge Pressure *Pressure is defined and the relationship among pressure, density and depth for fluids is discussed. *Atmospheric and gauge pressure are defined	10.3	<u>page 282</u> 17 27 31	
10.4 Pascal's Principle *Pascal's principle is stated and its practical applications discussed	10.4	36 <u>page 283</u>	
10.6 Buoyancy and Archimedes' Principle *Buoyant force is defined and Archimedes' principle is derived *Problem solving involving buoyant forces	10.6	40 43 45	
10.7 Fluids in Motion; Flow Rate and Continuity *The principles of fluid dynamics are introduced *The equation of continuity is applied in problems	10.7	46	
10.8 Bernoulli's Equation *Bernoulli's principle is stated and its equation is applied to problems of fluid flow between two points	10.8		