AP Physics 2 - Models for Fluid Statics and Fluid Dynamics - Standards Set 1

1.1 FSM I can draw a quantitatively accurate force diagram for an object experiencing a buoyant force.		
1.2 FSM I can use density to solve fluid static problems, as well as explain changes in buoyant force and water level when objects interacting with fluids change position. <i>Includes:</i> • explanations invoking a microscopic model		
1.3 FSM I can relate pressure, force, and area. I can describe pressure differences and justify the description. <i>Includes:</i> • explanations invoking a microscopic model		
1.4 FSM I can calculate and explain the pressure due to depth and distinguish between gauge and absolute pressure. Includes: o Air pressure o Water pressure		
1.5 FDM I can use the principle of continuity to explain fluid flow situations and to calculate flow rates or areas in a fluid flow problem.		
1.6 FDM I can calculate the pressures, velocities, and depths in a fluid motion problem, as well as explain the energy relationships. <i>Includes</i> • Energy bar charts		

Quiz Average Calculations: $50 + 25[\frac{total \, standards \, score}{\#standards}]$

A perfect score, if there were five standards: $Quiz\ Average\ =\ 50\ +\ 25[\frac{10}{5}]\ =\ 100\%$