

**Assignment Sheet**  
**Buoyancy**

Objectives

You will be able to:

- A. Define density and pressure.
  - Distinguish between gauge and absolute pressure.
  - Relate Pascal's Principle to pressure, the incompressibility of water, and mechanical advantage.
- B. Determine the buoyancy force on a object of known mass and density (or volume).

Reading

- A. Review. Almost of this should have been covered in chemistry class.
  - 15-1, Density, p. 500
  - 15-2, Pressure, p. 500–503
  - 15-3, Static Equilibrium in Fluids: Pressure and Depth, p. 504–509
- B. 15-4, Archimedes' Principle and Buoyancy, p. 509–510
  - 15-5, Applications of Archimedes' Principle, p. 511–516

Laboratory  
Buoyancy

Key Questions:

p. 530, CQ 1, 7, 12, P 3, 10, 13, 14, 18, 29, 32, 37, 43, 46,