

CHAPTER 3	Density and Pressure Problems	BLM 3.0.1
ASSESSMENT		

1. (a) The density of liquid water at 4°C is 1.00 g/mL. An ice cube placed in this water floats. What does this tell you about the density of ice relative to water?
- (b) In a similar experiment, a cube of solid canola oil sinks in liquid canola. How do the densities of the two phases of canola oil compare?
- (c) Consider your answers to (a) and (c) above. What would be the implications to life if water had the same properties as oil?
2. What is the mass of 1.50 L of isopropanol (density = 0.785 g/mL)?
3. What is the density of an unknown gas if 3.1×10^3 L has a mass of 700 g?

