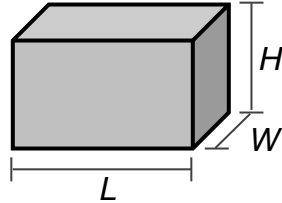


## LAB 1 PRE-LAB



1. A box with rectangular faces has dimensions  $L$ ,  $W$ , and  $H$ . What is the formula for the volume of the box?
2. A lump of stuff has a mass  $m$  and volume  $V$ . What is the formula for the density of the lump?
3. When an object floats at rest on water, in what direction is the net force acting on it?  
Upward.  $\uparrow$   
Downward.  $\downarrow$   
Parallel to the surface of the water.  
Zero.
4. In which state of matter are the molecules, in general, farthest apart?  
Solid.  
Liquid.  
Gas.