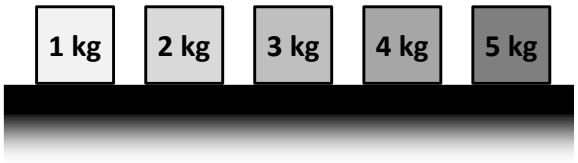
Name: _____
Class Period: _____

Floating and Sinking:

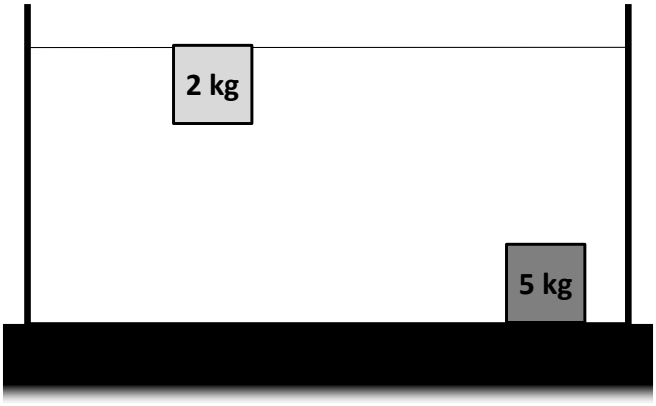
Post Lab Questions:

1. You have 5 blocks that are the same size, but different masses. The lightest one is 1kg, the heaviest one is 5kg.



   The picture shows how the 2kg and 5kg blocks float and sink in water.

   On the picture, **draw** where the other blocks would end up if you put them in the water.

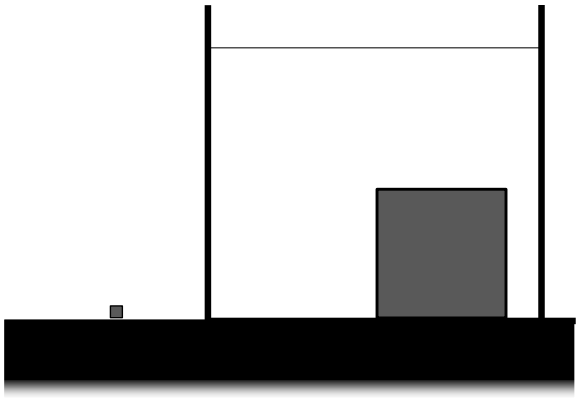


   Explain why you think it would look that way?

   _____
   _____
   _____
   _____

   (Adapted from Univ. of Washington assessment question)

2. This picture shows a large block that sinks in the water, and a much smaller block of the **exact same material** sitting outside of the water.

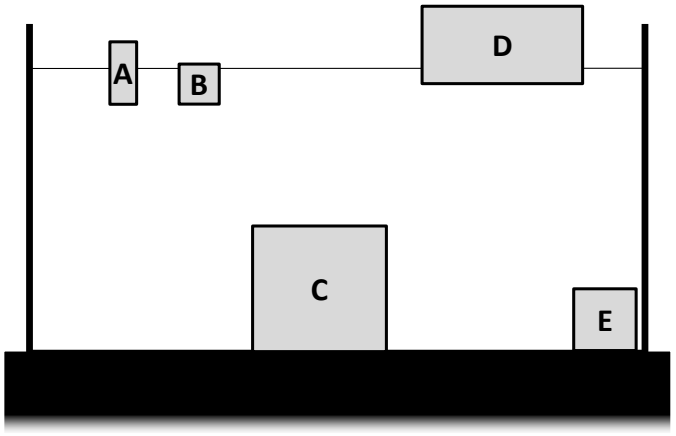


   On the picture, **draw** what you think would happen if you put the smaller block into the water.

   Would it float or sink, or does it depend? _____

   The density of the smaller block is _____ the density of the larger block.
   (smaller than, same as, larger than)

3. You have 5 blocks of different shapes, different sizes, and different materials. You put them in water and see that some float and some sink (see picture).



Can you tell which one has the **smallest <u>density</u>**? _____

If so, which one: _____

Explain how you can tell:

_____

_____

Can you tell which one has the **largest <u>density</u>**? _____

If so, which one: _____

Explain: _____

In the empty picture, **redraw** the blocks in the water in order from the **smallest <u>density</u>** one to the **largest <u>density</u>** one.

If you don't have enough information, **explain** what information you would need.