**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?

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*(Adapted from Univ. of Washington assessment question)*

1. 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)

1. 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 density**? \_\_\_\_\_

If so, which one: \_\_\_\_\_\_

Explain how you can tell: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Can you tell which one has the **largest density**? \_\_\_\_\_

If so, which one: \_\_\_\_\_\_

Explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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