Name:_____

Date Started:_____Date Completed:_____Score:_____

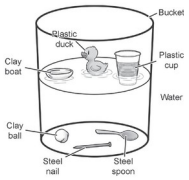
Learning Activity Sheet

Ability of a Material to Sink and Float

A. Read and answer each item carefully. Encircle the letter of the correct answer.

1. Refer to the illustration at the right. Different objects with the same mass are placed in the container half-filled with water. Not all objects sink or float. What accounts for the ball to sink and the boat to float?

A. kind of material
B. shape
C. size
D. weight



2. Study the picture of the small stone and the ship. Comparing the two, the steel ship floats in water but the small stone sinks. Why is this so?

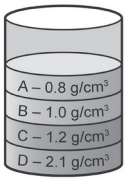
A. It is because of the ship's density.
B. It is because of the ship's shape.
C. It is due to the ship's weight.
D. It is due to the ship's mass.


Small stone


Steel ship

3. The container at the right contains four different liquids and their densities. If a ball with a density of 1.32 g/cm3 is dropped in it, where would it stay?

A. at the bottom of the container
B. between A and B
C. between B and C
D. between C and D



4. Which of the following sentences is **TRUE**?

A. Buoyant force is the upward force of the water to the object placed in it.
B. Buoyant force is the force that makes an object heavier.
C. Buoyant force is the force that makes an object lighter.
D. Buoyant force acts in the same direction as gravity.

5. It was observed that if you place an egg in salt water, it floats, but if you place it in fresh water, it sinks. How does the density of salt water and fresh water compare?

A. The density of salt water and fresh water is the same.
B. Salt water is less dense than fresh water.
C. Fresh water is less dense than salt water.
D. It depends upon the density of the egg.

B. Write **F** if the material will FLOAT in the water, then **S** if the material will SINK in the water.

___1. Paper Clip
___2. Penny
___3. Plastic fork
___4. Metal key
___5. Wooden block