

Lesson topic: Buoyant force.

SCIENCE HOMEWORK (Due in a week)

of 8



1. Please, explain the difference between weight and mass? [2]

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2. Answer the questions. [2]

a. What is a buoyant force? Explain in your own words.

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b. What is another name of a buoyant force? Drag and drop the letters to unscramble the word.

U T H P S T U R

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3. Multiple choice questions. Mark the correct answers [3]

1) How can you calculate density?

- a)  $\text{density} = \text{mass} \times \text{volume}$
- b)  $\text{density} = \text{mass} \div \text{volume}$
- c)  $\text{density} = \text{mass} + \text{volume}$
- d)  $\text{density} = \text{mass} - \text{volume}$

3) When does an object sink?

- a)  $\text{object weight} = \text{displaced water weight}$
- b)  $\text{object weight} > \text{displaced water weight}$
- c)  $\text{object weight} < \text{displaced water weight}$
- d)  $\text{object weight} \neq \text{displaced water weight}$

2) When does an object float in a liquid?

- a)  $\text{buoyant force} = \text{weight}$
- b)  $\text{buoyant force} > \text{weight}$
- c)  $\text{buoyant force} < \text{weight}$
- d)  $\text{buoyant force} \neq \text{weight}$

4. Solve the task. Show your work! [1]

Density of copper is 9 grams per milliliter. What is the volume of 72 grams of copper?

Answer: _____
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