

Lesson topic: Buoyant force.

SCIENCE HOMEWORK (Due in a week)

of 8



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

[2]

2. Answer the questions.

[2]

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

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

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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) buoyant force = weight
b) buoyant force > weight
c) buoyant force < weight
d) buoyant force $\neq$ 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:

