

**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) *object weight = displaced water weight*  
b) *object weight > displaced water weight*  
c) *object weight < displaced water weight*  
d) *object weight  $\neq$  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:

