



Properties of Matter

Name: _____

Date: _____

Grade: Grade 5

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A large rock always has a greater density than a small pebble because it is bigger.

Rewrite: _____

2. Fix the sentence: Volume measures how heavy an object is when you place it on a scale.

Rewrite: _____

3. Fix the sentence: An object sinks in water because it is very large and takes up a lot of space.

Rewrite: _____

Part B: Fill in the Blank

Write the missing word or number on each line.

- Density is calculated by dividing an object's _____ by its volume.
- The amount of space an object takes up is called its _____.
- An object with a density less than 1 g/cm^3 will _____ in water.
- Scientists use a _____ to measure the mass of an object in grams.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. A wooden block and a steel marble are the same size. The steel marble sinks in water but the wooden block floats. Explain why.

2. Explain how you can find the volume of an irregularly shaped rock using water.

Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A large rock always has a greater density than a small pebble because it is bigger.

Rewrite: A large rock does not always have a greater density than a small pebble because density depends on the type of material, not the size of the object.

2. Fix the sentence: Volume measures how heavy an object is when you place it on a scale.

Rewrite: Volume measures how much space an object takes up, not how heavy it is. Mass measures how heavy an object is.

3. Fix the sentence: An object sinks in water because it is very large and takes up a lot of space.

Rewrite: An object sinks in water because its density is greater than the density of water, not because of its size.

Part B: Fill in the Blank

Write the missing word or number on each line.

- Density is calculated by dividing an object's mass by its volume.
- The amount of space an object takes up is called its volume.
- An object with a density less than 1 g/cm^3 will float in water.
- Scientists use a balance to measure the mass of an object in grams.

Part C: Short Answer

Answer each question in one or two complete sentences.

1. A wooden block and a steel marble are the same size. The steel marble sinks in water but the wooden block floats. Explain why.

The steel marble has a greater density than water so it sinks, while the wooden block has a lower density than water so it floats. Even though they are the same size, steel is a denser material than wood.

2. Explain how you can find the volume of an irregularly shaped rock using water.
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