

Grade 8 Science Interactive Assessment - Properties of Matter

Section 1: Multiple Choice

Instructions: Choose the correct answer.

1. Which of the following is NOT a property of matter?
 - a) Mass
 - b) Volume
 - c) Shape
 - d) Electricity

2. What is the unit of density?
 - a) kg/m
 - b) m/s
 - c) kg/m³
 - d) N/m²

3. Which state of matter has a definite volume but no definite shape?
 - a) Solid
 - b) Liquid
 - c) Gas
 - d) Plasma

Section 2: Matching Activity

Instructions: Match each term with its correct description.

- A. Solid -> _____ (Particles are tightly packed and vibrate in place)
- B. Liquid -> _____ (Particles are loosely packed and flow)
- C. Gas -> _____ (Particles move freely and are far apart)

Section 3: Fill in the Blanks

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Instructions: Fill in the blanks with the correct word.

1. Matter is anything that has _____ and occupies space.
2. The amount of matter in an object is called its _____.
3. The amount of space an object takes up is called its _____.
4. Density = _____ ÷ volume.

Section 4: True or False

Instructions: Tick the correct option.

1. Gases have a definite shape. ☐ True ☐ False
2. Solids have a definite volume. ☐ True ☐ False
3. Liquids take the shape of their container. ☐ True ☐ False

Section 5: Short Answer

Instructions: Answer in 2-3 sentences.

Q: How do the particle arrangements differ in solids, liquids, and gases?
