

Grade 5 Science: Properties of Matter

Class Assessment 1 — Multiple Choice Track

Name: _____

Stream: 5I

Date: _____

MULTIPLE CHOICE QUESTIONS

Directions: Circle the correct letter (A, B, C, or D) for each question.

1. What is the fundamental building block of all matter?

- A) Water drops
- B) Tiny invisible particles (Atoms/Molecules)
- C) Air bubbles
- D) Empty space

2. Which state of matter has a fixed volume but changes shape to fit its container?

- A) Solid
- B) Gas
- C) Liquid
- D) Plasma

3. In which state of matter are the particles locked tightly in place and vibrating slightly?

- A) Liquid
- B) Gas
- C) Vapor
- D) Solid

4. Why can gases be easily compressed (squeezed into a smaller space)?

- A) Because their particles are very far apart with empty space between them.
- B) Because their particles are extremely large and heavy.
- C) Because they do not have any mass.
- D) Because their particles are linked tightly like chains.

5. Mass measures the amount of _____ inside an object.

- A) Space it takes up
- B) Matter
- C) Gravity pulling down
- D) Liquid content

6. If you move a block of wood from a small table to a large box, what happens to its shape and volume?

- A) Both its shape and volume change completely.
- B) Its shape changes, but its volume stays the same.
- C) Both its shape and volume stay exactly the same.
- D) Its volume expands to fill up the whole box.

7. Volume is defined as the amount of:

- A) Weight pulling on an object.
- B) Matter a solid contains.
- C) Space an object takes up.
- D) Particles inside a fluid.

8. Which of the following is NOT an example of matter?

- A) Cold water
- B) Sunlight or thoughts
- C) Oxygen gas
- D) A metal desk

9. How do particles behave inside a liquid state?

- A) They fly apart in all directions rapidly.
- B) They are locked completely rigid and cannot slide.
- C) They are close together but can freely slide and roll past one another.
- D) They vanish when heat is applied.

10. Which basic tool would you use to accurately measure the volume of a liquid sample?

- A) A triple beam balance
- B) A thermometer
- C) A metric ruler
- D) A graduated cylinder

Teacher Answer Key

Grade 5 Science Assessment 1 — Master Answer Copy

Question #	Correct Answer	Concept Assessed
1	B	Particle theory of matter foundations.
2	C	Identifying liquid traits (fixed volume, variable shape).
3	D	Solid state particle arrangement and vibration behavior.
4	A	Gas particle space allocation and compressibility.
5	B	Scientific definition of Mass.
6	C	Solid structural integrity independently of environment.
7	C	Scientific definition of Volume.
8	B	Differentiating matter from forms of pure energy.
9	C	Fluid structural dynamics of liquid particles.
10	D	Laboratory equipment classification for liquid volume.