

## QUIZEN –Matter in Our Surroundings (9C01)

<b>Learning Level 1</b>	<b>Learning Level 2</b>	<b>Learning Level 3</b>
Q - Remembering (knowledge-based questions) U - Understanding (comprehension-based questions)	I - Applying (application-based questions) Z - Analyzing (analysis-based questions)	E - Evaluating (evaluation-based questions) N - Creating (creation-based questions)

### Learning Level 1

1. Define the term "matter."
2. List three states of matter.
3. What happens to the intermolecular space and kinetic energy of particles when a substance changes from a solid to a liquid?
4. What is the effect of increasing pressure on the boiling point of a liquid?
5. Name a process by which a solid directly changes into a gas without going through the liquid state.

### Learning Level 2

6. How does the kinetic theory of matter explain the differences between the states of matter?
7. Why does a gas exert pressure on the walls of its container?
8. A substance X has a fixed volume but no fixed shape. Which state of matter does it belong to? Explain.
9. How can you change the state of matter of a substance? Give an example.
10. A sample of gas is compressed from a volume of 4 L to a volume of 2 L at constant temperature. What happens to its pressure?

### Learning Level 3

11. Compare the properties of solids and liquids. Give examples of each.
12. Analyze the effect of temperature on the volume of a gas. Use appropriate graphs to support your answer.
13. Evaluate the role of intermolecular forces in determining the state of matter of a substance.
14. Create an experiment to show the effect of pressure on the boiling point of a liquid. Write down the materials required and the steps involved in the experiment.
15. Design a model to show the arrangement of particles in each state of matter. Use appropriate materials and label the different parts of the model.