



3055 BA SANGAM COLLEGE

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WORKSHEET 8

School: Ba Sangam College

Name: _____

Subject: Basic Science

Level/Year: 9

Strand	Matter
Sub Strand	Investigating Matter
Content Learning Outcome	Describe the structure and properties of matter using particle model of atoms and molecules and account for the behavior of matter when heat is added or removed.

Lesson Notes - Structure and Property of Matter

- ✚ Matter comes in 3 forms or states: solids, liquids and gases.
- ✚ Particle model:

Solid	Liquid	Gas
		

- ✚ The **particle theory of matter** states that everything is made up of particles which are in constant motion. These particles vibrate or move.
- ✚ How much they move depends on how much energy they have
- ✚ Particles arrangement in matter

Solid	Liquid	Gases
Close together	Close together	Far apart
Fixed in place	Free to move	Free to move
Vibrating in place	Moving around	Moving around
Fixed volume	No fixed volume	No fixed volume
Fixed shape	Take shape of the container	No fixed shape fills any container it is placed in
Only vibrates	Move around when heated	Break free and move around anywhere

Exercise

1. List the three states of matter

_____ (1 ½ marks)

2. Draw the particle model of solids, liquids and gases.

Solids



Liquids



Gases



(3 marks)

3. Read and match

They have a fixed shape and a fixed volume

SOLIDS



They don't have a fixed shape nor a fixed volume

LIQUIDS



They have a fixed volume but their shape can change

GASES



(3 marks)

3. State the particle theory of matter

_____ (1 mark)

4. Identify as solid, liquid or gas.

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(1 ½ marks)