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WORKSHEET 9

School: Ba Sangam College

Name: _____

Subject: Basic Science

Year/Level: 9

Strand 2	Matter
Sub Strand 2.1	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 – Properties of Matter

Common properties of matter

- Colour
- size
- shape

Other physical properties

• elasticity	• strength	• hardness	• electrical conductivity
• density	• melting point	• solubility	• heat conductivity

Physical properties	Explanation
Elasticity	The ability of a material to return to its original shape and size after being stretched or compressed
Strength	The ability of a material to support a mass or heavy load without breaking or collapsing
Hardness	The ability of a material to withstand scratches and wear
Solubility	Is the maximum quantity of a substance that can dissolve in a given quantity of the solvent
Melting point	The temperature at which a substance changes from solid to liquid
Electrical conductivity	A measure of how readily electric current flows through a substance. Substances that allow electricity to pass through them are called conductors . Those that do not allow electric current to pass through them are called insulators .
Heat conductivity	A measure of how readily heat flows through a substance

Exercise

1. State **three** common properties of matter.

(3 marks)

2. Explain these physical properties.

a. Solubility

(1 mark)

b. Strength

(1 mark)

c. Hardness

(1 mark)

d. Elasticity

(1 mark)

3. What are conductors?

(1 mark)

4. What are insulators?

(1 mark)

5. What is heat conductivity?

(1 mark)

