SAMPEL PERCUMA

Science Year 4 DLP: Matter Worksheet

Set penuh: DLP Science Year 4–6

Year 4

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KSSR 2026 EDITION · DLP · YEAR 4

SCIENCE PRACTICE YEAR 4

KSSR 2026 — Science & Science Process Skills

✓ 30 Practice Pages + Answer Key

✓ Chapter 1: Plants · Chapter 2: Animals

✓ Chapter 3: Matter — Properties & Changes

✓ Chapter 4: Force & Energy · Chapter 5: Earth, Moon & Sun

✓ Full Answer Key at the Back

English edition for DLP pupils (Dual Language Programme) · for Year 4 pupils, parents & teachers · print as many times as you like

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Science process skills to master:

Skill	Meaning
Observing	Using the senses to get information
Classifying	Grouping things by common characteristics
Measuring	Getting data using measuring tools
Making inferences	Making an early conclusion based on observation
Predicting	Estimating what will happen
Making a hypothesis	Making a statement that can be tested

Exercise 3C: Changes in the State of Matter

Label the arrows in the diagram of changes in the state of matter.

Diagram: Changes in the State of Matter

SOLID → _____ (heating) LIQUID → _____ (heating) GAS

SOLID ← _____ (cooling) LIQUID ← _____ (cooling) GAS

Choices: evaporation (boiling) | condensation | melting | freezing

Exercise 3D: Physical and Chemical Changes

Classify each change as a Physical Change (PC) or a Chemical Change (CC).

Change	PC / CC
Ice melts into water	
Paper burns	
Sugar dissolves in water	
Iron rusts	
Water boils into steam	
Bread grows mould	

Exercise 3E: Mixtures and Solutions

Answer the questions.

1. What is the difference between a mixture and a pure substance?

_____

_____

2. Give TWO examples of solutions we see in daily life:

(a) _____ (b) _____

3. State how to separate these mixtures:

(a) Sand and water → _____

(b) Salt and water → _____

(c) Iron and wood → _____

Exercise 3F: Properties of Materials

Match each property of a material with its meaning.

Property	Meaning
Elasticity	The ability of a material to conduct heat or electricity
Conductivity	The ability of a material to absorb water
Toughness	The ability of a material to go back to its shape after being pressed
Absorbency	The ability of a material to be pulled or shaped without breaking

Exercise 3G: Acids and Alkalis

Classify each substance as Acid (A), Alkali (B) or Neutral (N) based on its pH value.

Substance	pH	A / B / N
Distilled water	7	
Vinegar	3	
Soap	10	
Lemon juice	2	
Milk	6.5	
Sodium hydroxide solution	12	

Exercise 3H: Matter — Multiple Choice

1. The process in which a liquid turns into a solid when cooled is called:
   (A) melting
   (B) freezing
   (C) sublimation
   (D) condensation

2. A substance that has a fixed shape and a fixed volume is a:
   (A) gas
   (B) liquid
   (C) solid
   (D) plasma

3. Iron rusting is a:
   (A) physical change
   (B) chemical change
   (C) natural change
   (D) reversible change

Exercise 3I: Designing an Experiment

Read the experiment below and answer the questions.

Experiment: Does temperature affect how fast salt dissolves?

A pupil dissolves 10 g of salt in 200 ml of water at different temperatures (cold, room temperature, hot). The time for the salt to dissolve completely is recorded.

1. What is the hypothesis of this experiment?

2. What is the manipulated variable? → _____
3. What is the constant (fixed) variable? → _____
4. What is the responding variable? → _____
5. Predict what will happen in hot water. → _____
6. What apparatus is needed for this experiment?

ANSWER KEY — Chapter 4 to Chapter 5

Exercise 4A — Types of Force

Gravity = a; Friction = e; Magnetic = b; Buoyant = c; Muscular = d

Exercise 4F — Conductors / Insulators

Copper = C; Plastic = I; Iron = C; Glass = I; Rubber = I; Salt water = C; Wood = I; Aluminium = C

Exercise 4G — Magnetic Materials

Iron = M; Copper = N; Paper = N; Aluminium = N; Plastic = N; Nickel = M; Steel = M; Cobalt = M

Exercise 4H — Force / Energy Multiple Choice

1-B 2-C 3-B 4-C

Exercise 5B — Movements of the Earth

1. 24 hours 2. 365 days 3. day and night 4. seasons / a year

Exercise 5C — Phases of the Moon

1. New Moon 2. Crescent (first half) 3. Full Moon 4. Crescent (last half)

Exercise 5D — Eclipses

Total solar eclipse = b; Partial solar eclipse = d; Total lunar eclipse = a; Partial lunar eclipse = c

Exercise 5I — Multiple Choice

1-C 2-C 3-B 4-C 5-D

TAMAT SAMPEL

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