SAMPEL PERCUMA

Science Year 4 DLP: Force and Energy Worksheet

Set penuh: DLP Science Year 4–6

Year 4

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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 4C: Types of Energy

Classify the examples below by type of energy.

Type of energy	Example
Kinetic energy (movement)	
Potential energy (stored)	
Heat energy	
Sound energy	
Light energy	
Electrical energy	

Choices: a lamp that is switched on | a rolling ball | hot water | a vibrating guitar string | a rock on top of a hill | a spinning fan

Exercise 4D: Saving Energy

Tick (✓) the habits that SAVE energy and cross (✗) the habits that WASTE energy.

Habit	✓ / ✗
Switching off the lights when leaving a room	
Leaving the TV on when nobody is watching	
Using LED lamps instead of fluorescent lamps	
Keeping the fridge door open too long	
Drying clothes in the sun	

Exercise 4E: Electric Circuits

Label the components of the electric circuit.

Box: battery | bulb | switch | wire | resistor

Simple electric circuit — label components A to E:

A: _____

B: _____

C: _____

D: _____

E: _____

Exercise 4F: Conductors and Insulators

Classify each material as an electrical Conductor (C) or Insulator (I).

Material	C / I	Material	C / I
Copper		Rubber	
Plastic		Salt water	
Iron		Wood	
Glass		Aluminium	

Exercise 4G: Magnetic Force

Mark (M) for materials attracted by a magnet and (N) for materials not attracted.

Material	M / N	Material	M / N
Iron		Plastic	
Copper		Nickel	
Paper		Steel	
Aluminium		Cobalt	

Exercise 4H: Force and Energy — Multiple Choice

1. The force that resists movement between two surfaces in contact is:
   (A) gravity
   (B) friction
   (C) magnetism
   (D) buoyancy

2. The energy stored in a compressed spring is:
   (A) kinetic energy
   (B) sound energy
   (C) potential energy
   (D) heat energy

3. A material that lets electricity flow through it is called:
   (A) an insulator
   (B) a conductor
   (C) a semiconductor
   (D) a magnet

4. Which of these is an example of renewable energy?
   (A) Coal
   (B) Natural gas
   (C) Solar energy
   (D) Oil

Exercise 4I: Buoyant Force — Archimedes' Principle

Read the situation and answer the questions.

Archimedes Weighing Experiment

A stone is weighed in air and its weight is 500 g. When the stone is put into water, the scale reads 350 g.

1. What is the weight of the stone in air (in g)? → _____
2. What does the scale read when the stone is in water? → _____
3. What is the buoyant force acting on the stone? → _____
4. Why is the scale reading lower in water?

5. What decides whether an object floats or sinks?

Section B: Structured Questions

Answer all the questions.

Question 1: Plants

(a) Name TWO raw materials needed for photosynthesis.

1. _____ 2. _____

(b) What are the products of photosynthesis?

1. _____ 2. _____

Question 2: Animals

(a) State TWO characteristics of mammals.

1. _____ 2. _____

(b) Give ONE example of an animal that goes through complete metamorphosis. _____

Question 3: Matter

(a) What is the main difference between a solid and a gas in terms of shape and volume?

_____

_____

_____

Question 4: Force & Energy

(a) Give TWO examples of forces in daily life:

1. _____ 2. _____

TAMAT SAMPEL

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