



education
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

**GENERAL
EDUCATION AND TRAINING**

GRADE 8

**NATURAL SCIENCES
TERM 3
2024
Baseline Assessment**

Marks: 30

Time : 40 minutes

Learner's Name: _____

This question paper consists of 4 pages.

INSTRUCTIONS

1. This question paper consists of **4 pages** including the cover page.
2. Answer **ALL** the questions.
3. Number the answers correctly following the numbering system used in this question paper.
4. Write neatly and legibly.

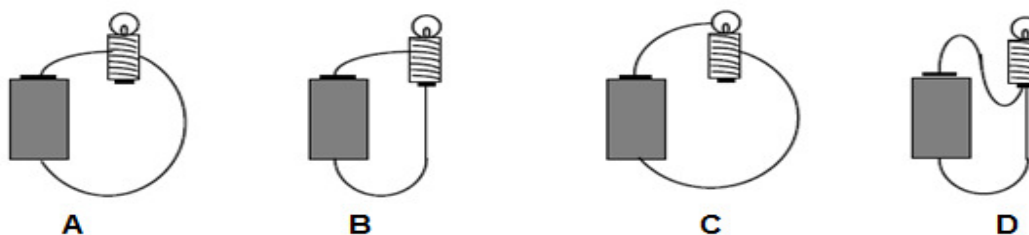
QUESTION 1

Four options are given for each question but only **ONE** is correct. Circle the letter of the correct answer by **ONLY**.

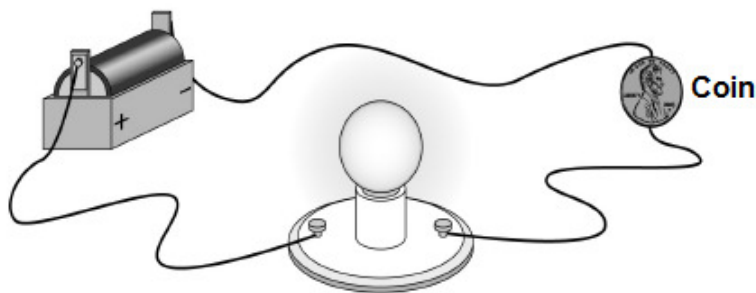
- 1.1 Heat and light energy is transferred from the Sun by ... (2)
- A. radiation
 - B. Conduction
 - C. Convection
 - D. transmission
- 1.2 Material that allow electricity to move through are ... (2)
- A. flexibility
 - B. electrical conductors
 - C. material
 - D. electrical insulator
- 1.3 Which unit is used to measure energy? (2)
- A. Joule
 - B. Kilogram
 - C. Ampere
 - D. Volt
- 1.4 Which example best describes radiation? (2)
- A. Heat transfer from a fire to an iron bar.
 - B. Heat transfer from the sun through space.
 - C. Heat transfer from a stove to a cooking pot.
 - D. Heat transfer from a candle to a copper wire.
- 1.5 The form of energy stored within an electric cell is ... (2)
- A. kinetic energy
 - B. light energy
 - C. electrical energy
 - D. potential energy

1.6 On which circuit will the light bulb glow?

(2)



1.7 The diagram below shows an electric circuit.



The purpose of the copper coin is to...

(2)

- A. conduct electricity
- B. produce electricity
- C. store electricity
- D. stop the flow of electricity

[14]

QUESTION 2

Match **column A** with **column B**. Write only the number and the matching alphabet in the answer column.

Column A	Column B	Answer Column
2.1. The process where electric current causes a chemical reaction in a solution.	A. Insulator	
2.2. An ... is a device that converts electrical energy into mechanical energy.	B. Electric circuit	
2.3. A material that does not allow electricity to pass through.	C. Battery	
2.4. A connection of two or more cells.	D. electric motor	
2.5. A system for transferring energy.	E. electrolysis	
	F. Conductor	

[5]

QUESTION 3

Choose a word(s) from the word box to complete each sentence.

sound	glass	black	electric current	rubber
conductors	copper	white	battery	silver

3.1. The output energy of a buzzer is _____ energy. (1)

3.2. Examples of materials that are conductors are _____ and _____ . (2)

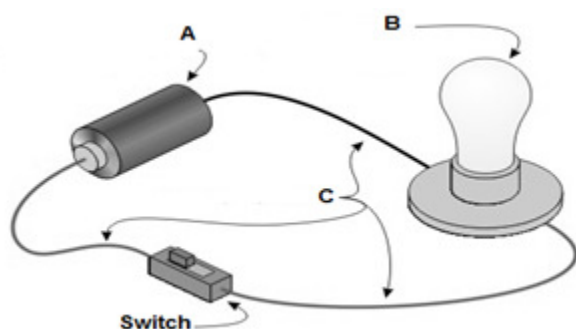
3.3. Examples of materials that are insulators are _____ and _____ . (2)

3.4. Shiny surfaces such as _____ are good reflectors of radiant heat and _____ surfaces absorb heat energy. (2)

[7]

QUESTION 4

Study the diagram below and answer the questions that follow.



4.1. What is the component marked A? _____ (1)

4.2. Name the component marked B? _____ (1)

4.3. Name the components marked C? _____ (1)

4.4. What is stored in component marked A? _____ (1)

[4]

GRAND TOTAL [30]