

Electricity and Energy Assessment

Student Name:	Class:
Student ID:	Date: {{DATE}}

Assessment Details

Duration: 45 minutes	Total Marks: 100	
Topics Covered:	ElectricityConductors and InsulatorsUses of Electricity in Everyday Life	

Instructions to Students:

- 1. Read all questions carefully before attempting.
- 2. Show all working out marks are awarded for method.
- 3. Calculator use is permitted except where stated otherwise.
- 4. Write your answers in the spaces provided.
- 5. If you need more space, use the additional pages at the end.
- 6. Time management is crucial allocate approximately 1 minute per mark.

Section A: Multiple Choice Questions [30 marks]

Question 1	[5 marks
What is electricity?	
A) A type of energy that powers devices	B) A type of material that conducts heat
C) A type of wave that travels through space	D) A type of force that moves objects
Question 2	[5 marks
Which of the following materials is a good conduct	tor of electricity?
A) Wood	B) Metal
C) Plastic	D) Fabric
Question 3	[5 marks
What is the primary use of electricity in homes?	
A) To power tools	B) To light homes
C) To heat water	D) To cook food

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Section B: Short Answer Questions [40 marks]

Question 4	[10 marks]
Describe the difference between a conductor and an insulator. Provide an example of each.	
Question 5	[10 marks]
Explain how electricity is used in your daily life. Provide at least two examples.	
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Section C: Diagram Labeling [20 marks]

Question 6	[20 marks]
Label the following components in the simple electric circuit diagram:	
Battery	
Wire	
Light bulb	
• Switch	

Section D: Interactive Simulation [10 marks]

Question 7	[10 marks]
Design and build a simple electric circuit using the following materials:	
Battery	
• Wire	
Light bulb	
• Switch	

Section E: Reflection and Self-Assessment

Question	8
Reflect o	n your learning and answer the following questions:
1. Wh	at did you learn about electricity and energy during this assessment?
2. Wh	at challenges did you face, and how did you overcome them?
3. Wh	at do you think you need to work on to improve your understanding of electricity and energy?

Marking Guide

Multiple Choice Questions (30 points):

• 1 point for each correct answer

Short Answer Questions (40 points):

- 10 points for each question
- Assessment criteria:
 - Accuracy and completeness of answer (5 points)
 - Clarity and organization of answer (3 points)
 - Use of examples and supporting details (2 points)

Diagram Labeling (20 points):

• 5 points for each correct label

Interactive Simulation (10 points):

- 5 points for successfully building a working circuit
- 5 points for demonstrating an understanding of how electricity flows through the circuit

Congratulations on completing the Electricity and Energy assessment! Remember to review reflect on your learning to improve your understanding of electricity and energy.	your results and
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Conclusion