## Introduction (5 minutes)

*Read the introduction to the Electricity Assessment Worksheet and answer the following questions:*

1. What is the purpose of this worksheet?

2. What age group is this worksheet designed for?

## Section 1: Multiple Choice Questions (15 minutes)

*Choose the correct answer for each question:*

1. 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

2. Which of the following materials is a good conductor of electricity?
   - a) Wood
   - b) Metal
   - c) Plastic
   - d) Fabric



3. 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

## Section 2: Short Answer Questions (20 minutes)

*Answer the following questions in complete sentences:*

1. Describe the difference between a conductor and an insulator. Provide an example of each.

2. Explain how electricity is used in your daily life. Provide at least two examples.

## Section 3: Diagram Labeling (15 minutes)

*Label the following components in the simple electric circuit diagram:*

- Battery
- Wire
- Light bulb
- Switch

[Space for diagram]

## Section 4: Interactive Simulation (25 minutes)

*Design and build a simple electric circuit using the following materials:*

- Battery
- Wire
- Light bulb
- Switch

[Space for circuit design]

## Section 5: Critical Thinking Questions (20 minutes)

*Answer the following questions in complete sentences:*

1. What would happen if you connected a wire to a battery and a light bulb, but forgot to turn on the switch?

2. How does the use of electricity in your home affect the environment?

## Section 6: Creative Activity (20 minutes)

*Draw a picture of a device that uses electricity and explain how it works.*

[Space for drawing]

## Conclusion (10 minutes)

**Individual Reflection:**

1. What did you learn about electricity from this worksheet?

2. How will you apply what you learned in your daily life?

## Assessment Rubric

*Use the following rubric to assess your work:*

- 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

## Note to Teacher

*Please provide feedback to students within 24 hours of completion. Encourage students to reflect on their own learning and set goals for future assessments. Consider providing additional support or challenges for students as needed.*