

Name:	
Period:	

UNIT: ELECTRICAL CIRCUITS

ACT-BASED ENGLISH: EDITING EXERCISE: IMPROVING TECHNICAL WRITING ANSWER KEY

Each sentence below contains an error or could be improved. Have students **rewrite** each sentence in a clearer, more concise, or grammatically correct way.

- 1. Wordiness & Clarity
 - **X** Original: The flow of electric current that moves through a conductor is something that happens when there is a voltage difference applied across the two ends of the conductor.
 - ✓ Edited: Electric current flows through a conductor when a voltage difference is applied.
- 2. Sentence Fragment
 - **X** Original: When the circuit is open and the current cannot flow.
 - ✓ **Edited:** When the circuit is open, the current cannot flow.
- 3. Subject-Verb Agreement
 - **X** Original: The voltage and the current in a series circuit determines the total resistance.
 - ✓ Edited: The voltage and the current in a series circuit determine the total resistance.
- 4. Misplaced Modifier
 - **X** Original: The students observed the current with a multimeter, which was flowing through the circuit.
 - ✓ Edited: The students used a multimeter to observe the current flowing through the circuit.
- 5. Parallel Structure
 - **X** Original: The engineer designed the circuit to be efficient, reliable, and with low energy loss.
 - ✓ Edited: The engineer designed the circuit to be efficient, reliable, and low in energy loss.



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ACT-STYLE MULTIPLE CHOICE QUESTION:

Question 1 (Conciseness & Clarity)

Original Sentence:

"Electric circuits are used in many types of technology that are commonly seen every day in life."

- Which of the following is the best revision for conciseness?
 - A. Electric circuits are used in everyday technology.
 - B. Electric circuits are commonly used in technology that people see daily.
 - C. Many different types of technology make use of electric circuits that are used daily.
 - D. Electric circuits are a thing that many types of technology commonly use every day.

(Correct Answer: A – This is the most concise and clear version.)

Question 2 (Grammar – Subject-Verb Agreement)

Original Sentence:

"The voltage in a parallel circuit, along with the current, determine the overall power consumption."

- Which revision corrects the subject-verb agreement error?
 - A. The voltage in a parallel circuit, along with the current, determines the overall power consumption.
 - B. The voltage in a parallel circuit, along with the current, determining the overall power consumption.
 - C. The voltage in a parallel circuit, along with the current, are determining the overall power consumption.
 - D. The voltage in a parallel circuit, along with the current, have determined the overall power consumption.

(Correct Answer: A – "determines" correctly agrees with "voltage.")

Question 3 (Transitions & Organization)

Passage:

"Series circuits and parallel circuits are two different ways to connect electrical components. In a series circuit, components share a single path for current flow. If one component fails, the entire circuit stops working. However, in a parallel circuit, each component has its own path. As a result, if one component fails, the others continue to function."



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- Which of the following best connects the two circuit types?
 - A. Furthermore, both series and parallel circuits have advantages.
 - B. Similarly, series and parallel circuits operate in the same way.
 - C. However, the main difference between them is how current flows.
 - D. Therefore, a series circuit is better than a parallel circuit.

(Correct Answer: C – This transition clearly contrasts series and parallel circuits.)

Question 4 (Punctuation – Comma Usage)

Original Sentence:

"Ohm's Law states that voltage equals current times resistance but if resistance increases current decreases."

- Which revision corrects the punctuation error?
 - A. Ohm's Law states that voltage equals current times resistance, but if resistance increases, current decreases.
 - B. Ohm's Law states that voltage equals current times resistance but, if resistance increases current decreases.
 - C. Ohm's Law states that voltage equals current times resistance, but if resistance increases current, decreases.
 - D. Ohm's Law states, that voltage equals current times resistance, but if resistance increases current decreases.

(Correct Answer: A – Proper commas set off the contrast between resistance and current.)

Question 5 (Precision & Word Choice)

Original Sentence:

"The electrical engineer tested the circuit to make sure it was good."

- Which of the following is the best revision for word choice and precision?
 - A. The electrical engineer tested the circuit to ensure it functioned properly.
 - B. The electrical engineer tested the circuit to make sure it was okay.
 - C. The electrical engineer examined the circuit to see if it had problems.
 - D. The electrical engineer looked at the circuit to make sure it was good.

(Correct Answer: A – "Ensure it functioned properly" is precise and formal.)