

# Understanding Open vs. Closed Circuits

## Reading Comprehension Passage

### UNDERSTANDING OPEN VS. CLOSED CIRCUITS

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ANSWER KEY

##### 1. What is an open circuit?

- A complete pathway for electricity.
- A discontinuity in the path of the current.
- A circuit with an interrupted flow of electricity.
- A circuit with closed switches.

##### 2. Which type of circuit allows electrons to separate?

- Open circuit.
- Short circuit.
- Closed circuit.
- Parallel circuit.

##### 3. What happens when a circuit is open?

- Electricity flows normally.
- Devices operate normally.
- Electricity cannot flow through it.
- Devices receive excessive power.

##### 4. What component can interrupt the flow of electricity?

- Resistors.
- Conductors.
- Insulators.
- Switches.

nelly salter?

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### UNDERSTANDING OPEN VS. CLOSED CIRCUITS



In the world of electrons and electrical engineering, circuits play a pivotal role in allowing electricity to flow and perform tasks. Two fundamental types of circuits are open circuits and closed circuits. Understanding the distinction between them is crucial for comprehending how electricity behaves within a system.

An open circuit is one where there is a discontinuity in the path of the current. It's like a gap in the road that prevents cars from traveling further. When a circuit is open, electricity cannot flow through it and as a result, devices connected to it won't operate. Imagine a light switch turned off - it breaks the circuit and stops electricity from reaching the light bulb.

On the other hand, a closed circuit is one where there is a complete, uninterrupted path for the current to flow. It's like a clear roadway for the electrons to travel smoothly. When a circuit is closed electrically, our flow through it freely, passing through connected components. For instance, when you turn on a light switch, it completes the circuit, allowing electricity to flow to the light bulb which then lights up.

Now, let's take a look at some key differences between open and closed circuits:

#### 1. Continuity:

- A closed circuit provides a complete pathway for electricity to travel, enabling devices to function.
- An open circuit breaks continuity, causing electricity to be unable to flow, thus rendering devices non-functional.

#### 2. Operation:

- Devices in a closed circuit can operate as intended because electricity can reach them.
- Devices in an open circuit cannot operate due to the interruption in the flow of electricity.

#### 3. Components:

- Closed circuits typically include conductive materials like wires, metal brackets or a circuit board that create a continuous path for electrons to flow.
- Open circuits may contain components like resistors or batteries that can interrupt the flow of electricity.

- In a closed circuit, components receive the necessary electrical energy to perform their functions.

- In an open circuit, devices will not function and do not receive electrical energy.

#### 4. Safety:

- Closed circuits are generally safe as electricity follows a predictable path.
- Open circuits may pose a safety hazard if someone accidentally touches a device in contact with an open gap.



## Reading Comprehension Vs Open Now

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