

Voltage Quiz Answer Key PDF

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In which situations is voltage critical for troubleshooting? (Select all that apply)
A. Diagnosing electrical faults ✓
C. Calculating power consumption ✓
D. Design circuit layouts ✓
C. Painting a house

What are potential dangers of high voltage? (Select all that apply)

- A. Electric shock ✓
- D. Overheating of devices ✓
- C. Improved efficiency

C. Fire hazards ✓

Which symbol is commonly used to represent voltage in circuit diagrams?

- A. I C. V ✓ D. P
- C. R

Which of the following are potential sources of voltage? (Select all that apply)

- A. Solar panels ✓
- C. Resistors
- D. Generators ✓
- C. Battery ✓

What is the standard unit of voltage?

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C. Ohm Which of the following is a common source of voltage? A. Resistor C. Battery ✓ D. Inductor C. Capacitor What happens to the voltage in a series circuit? A. It is multiplied by the number of components. C. It is divided among components. ✓ D. It remains constant. C. It is zero. In a parallel circuit, how does voltage behave across components? A. It is divided among components. C. It remains constant across all components. ✓ D. It fluctuates randomly. C. It is zero. Which of the following devices can measure voltage? (Select all that apply) A. Voltmeter ✓ C. Ammeter D. Ohmmeter C. Multimeter ✓ Which of the following are units of voltage? (Select all that apply) A. Joules per coulomb ✓ C. Watts	D. Watt
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·	Which of the following are units of voltage? (Select all that apply)
C. Watts	A. Joules per coulomb ✓
	C. Watts

A. AmpereeC. Volt ✓

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D.	Amperes	6
C.	Volts ✓	

What type of voltage remains constant over time?

- A. Alternating Voltage
- C. Direct Voltage ✓
- D. Inductive Voltage
- C. Reactive Voltage

What device is used to measure voltage across two points in a circuit?

- A. Ammeter
- C. Voltmeter ✓
- D. Ohmmeter
- C. Thermometer

What are characteristics of alternating voltage (AC)? (Select all that apply)

- A. Changes direction periodically ✓
- C. Remains constant over time
- D. Used in household power supply ✓
- C. Measured in amperes

What is the relationship between voltage, current, and resistance according to Ohm's Law?

- A. V = I / R
- C. $V = I \times R \checkmark$
- D. V = R / I
- C. V = I + R