

## Electricity test

**Instruction;** Watch the video lesson below and answer the questions that follow.



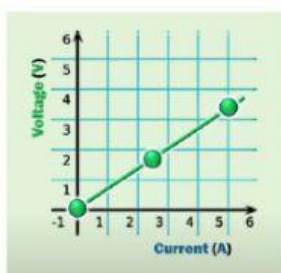
Section 1: Choose the correct answer from the pop down arrows.

1. What is electricity?
2. What charge do electrons have?
3. What charge do protons have?
4. What charge do neutrons have?
5. Electrons in a circuit flow\_\_\_\_\_.
6. According to Ohm's law \_\_\_\_\_

Section 2: Complete the table below with the missing information from the pop down arrows

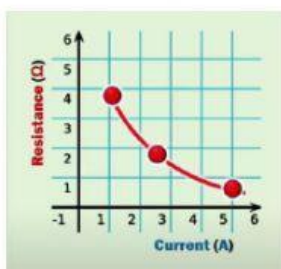
Quantity	Symbol	Unit of measurement	
		Unit	Abbreviation
Current			
Voltage			
Resistance			

Section 3: Use the given graphs to complete the statements that follow by selecting the best answer from the arrows.



1) Voltage and current have a/an \_\_\_\_\_ relationship.

2) The above statement in 1) means that, as Voltage \_\_\_\_\_ as current \_\_\_\_\_.



3) Resistance and current have a/an \_\_\_\_\_ relationship.

4) The statement in 3) means that, resistance \_\_\_\_\_ as current \_\_\_\_\_.

Section 4: Choose the best options to complete the statements about Measuring resistance, current and voltage.

1. Current is measured by connecting a/an \_\_\_\_\_ in \_\_\_\_\_ so that the \_\_\_\_\_ flowing in a circuit flow through it.

It can also be determined by \_\_\_\_\_ by \_\_\_\_\_ if they are given.

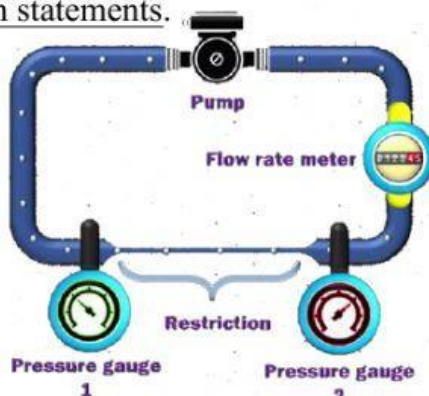
2. Voltage across a circuit component can be measured by connecting a \_\_\_\_\_ in \_\_\_\_\_ with the component.

It can also be determined by \_\_\_\_\_ by \_\_\_\_\_ if they are given.

3. To measure resistance of a circuit component, the \_\_\_\_\_ must be disconnected first and then connect a \_\_\_\_\_ across the component.

It can also be determined by \_\_\_\_\_ by \_\_\_\_\_ if they are given.

Section 5: The pressurized water system below operates like an electrical circuit. Use it to complete the given statements.



1. The pump provides the \_\_\_\_\_ as a \_\_\_\_\_ provides the \_\_\_\_\_ in an electrical circuit.
2. The water flow rate meter provides \_\_\_\_\_ as the \_\_\_\_\_ Provides the \_\_\_\_\_ in an electrical circuit.

3. Pressure gauges 1 and 2 provide the \_\_\_\_\_ drop across the restriction like the \_\_\_\_\_ provides a \_\_\_\_\_ difference in an electrical circuit.

Section 6: Choose the best options to complete the statements about Ohm's law and resistance.

1. Resistance of an object is affected by its \_\_\_\_\_.
2. \_\_\_\_\_ generally, have \_\_\_\_\_ resistance than \_\_\_\_\_.

Complete the give statements using the Ohm's law triangle below



1. Voltage = \_\_\_\_\_

2. Current = \_\_\_\_\_

3. Resistance = \_\_\_\_\_