WE ARE ELECTRONS



1. '	Which pa	articles	make u	o the	charge	that flow	s through	n wires	in a	circu	ıit?
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- a) inner shell electrons
- b) free electrons
- c) ions

2. What word describes the rate of flow of charge?

- a) potential difference
- b) resistance
- c) current

3. Why do electrons flow?

- a) they are pulled by positive charge or pushed by negative charge
- b) they are pushed by positive charge or pulled by negative charge
- c) they are pushed by magnetism

4. What is the unit used to measure potential difference?

- a) coulombs
- b) ohms
- c) volts

5. If a wire gets longer, what will happen to its resistance?

- a) it will increase
- b) it will decrease
- c) nothing

6. What is the equation, known as Ohm's Law, that links potential difference, current and resistance?

a)
$$I = VR$$

b)
$$V = IF$$

b)
$$V = IR$$
 c) $R = VI$

7. Which component could be used to limit the current by a set amount?

- a) fixed resistor
- b) diode
- c) variable resistor

8. Which component would be necessary for making an electronic light sensor?

- a) thermistor
- b) LDR
- c) variable resistor

9. Which equation links power, energy and time?

a)
$$P = Et$$

b)
$$P = \frac{E}{t}$$

b)
$$P = \frac{E}{t}$$
 c) $P = \frac{t}{E}$

10. Which electrical safety component is designed to melt when there is too much current going through it?

- a) earth wire
- b) cell
- c) fuse







