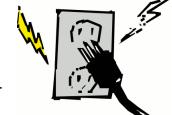
## **CURRENT ELECTRICITY**



- Static electricity forms when charges remain on an object for a while.
- Current electricity forms when electrons flow through a circuit.
- Current is formed when a device changes other forms of energy into electrical energy.

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>	Results from the movement of electrons						
>	The movement has TWO components:						
	A	- measured in Volts (v) - similar to water pressure					
	B measured in Amperes (A) – similar to water flow						
	(how much water past a certain point in one second						
VOLT	ΓAGE (V):						
•	• To make electrons move, they have to be <b>pushed</b> . They are forced along a metal in one						
	direction.						
• This push is called voltage or <b>potential difference.</b>							
•	Measured in by a device called a						
It can be described as a measure of the electrical pressure produced by battery or							
	power supply.						
We ge	et electrical energy f	rom a					
Two	or more chemical cel	ls joined together is a battery.					
	• -						
	Cell	(symbol in schematic diagrams)					

## **BATTERIES:**

Batteries produce a	by using	
to produce a difference in electrical pote terminals.		
•	Electrons are pushed from the ter	
Battery	The size of the	is called
carbon rod	Electrons at the negative termi crowded and therefore have	nal are _ (pressure) and want
negative terminal	to get away from each other.	_ (pressure) and want
Batteries can be connected in <b>TWO</b> way		
1) SERIES:	Schematic D	· Diagram:
2) <b>Parallel</b> :		
÷ -	Schematic D	viagram:

## **SHORT CIRCUIT:**

If a circuit is interrupted allowing a current to travel down an **unintended** path, it causes too much **current** in a wire. This is called a \_\_\_\_\_\_.



The excessive current can either cause the power source (like a battery) to heat up, "short" and be destroyed; or a \_\_\_\_\_ (if it is doing its job) to blow, breaking the flow of current in the circuit.



At home, a short circuit can be dangerous and harmful to your appliances and electronic devices. The most common cause of a short circuit in the home is \_\_\_\_\_\_ touching when they shouldn't.

