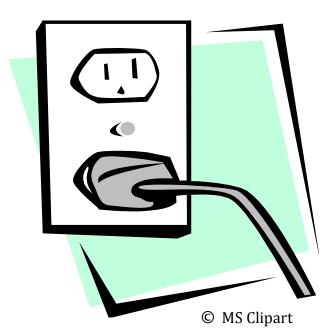
Science 9

All Charged Up

Static & Current Electricity



MY QUESTIONS

Our Inquiry into **ELECTRICITY** will help us better understand that:

- An object usually becomes electrically charged as the result of electrons moving.
- Electric current results from the separation of charge and the continuous movement of electrons.
- Every electric circuit has three key parts: a source, a load, and a conducting path that connects them.
- Series circuits generally have a higher overall resistance and draw less current from the source than parallel circuits.

Key Words

- source
- load
- voltage
- current
- resistance
- circuit

What's Coming Next





	KNOW					
В	D	Α	I can			
			List three ways an object can become electrically charged.			
			Describe the arrangement of protons, neutrons & electrons in a charged object.			
			List two ways the electrical force between two objects can be increased.			
			Give working defintions of the following terms:			
			Source, Load, Voltage, Current, Conductor, Insulator, Resistor			
			Distinguish between conventional current and electron current			
			Summarize Ohm's Law			
			Give working defintions of the following terms:			
			Electrical Power, Electrical Energy			

DO DO					
В	D	Α	I can		
			Describe the movement of charges in an object when it becomes charged. (consider all three ways of becoming charged)		
			Explain how a battery converts chemical energy into electrical energy.		
			Use Ohm's Law to describe the relationship between Current & Voltage.		
			Draw a schematic diagram for a simple circuit. Draw schematic diagrams for series & parallel circuits.		
			Analyze series & parallel circuits that have two or more resistors.		
			Differentiate between series & parallel circuits in terms of: the voltage drops across each resistor the current through each resistor the overall current drawn from the source the overall resistance of the circuit		
			Calculate the current "drawn" by various household devices (based on their power rating)		
			Calculate the energy consumption of various household devices.		