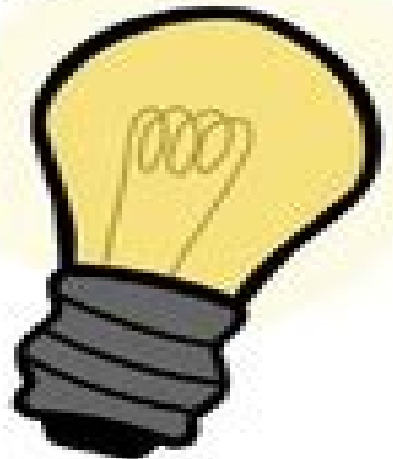








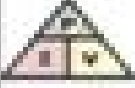







# ELECTRICITY



Electricity Study Guide 			
<b>Static Electricity</b> The accumulation of excess electric charges on an object. 	<b>Law of Conservation of Charge</b> Charge can be transferred from object to object but not destroyed. 	<b>Like charges repel</b> Opposite charges attract. 	<b>Electrical Field</b> Forces that cause other electric charges to be repelled or attracted. 
<b>Electrical Conductor</b> A material through which electrons move easily. Examples: All metals, such as copper and aluminum.	<b>Electrical Insulator</b> A material through which electrons are not able to move easily. Examples: glass, plastic, rubber, wood, air.	<b>Electrical Circuit</b> A complete path through which electrons can flow. 	<b>Resistance</b> Opposition to the flow of charges in a material. Measured in Ohms. $\Omega$
<b>Voltage Difference</b> Work needed to move a charge from one place to another in an electric field. Measured in volts (V).	<b>Direct Current</b> Flows only in one direction. <b>Alternating Current</b> Flow that regularly reverses its direction.	<b>Circuit Diagram</b> Symbols and lines that show how electrical energy flows.	<b>Series Circuit</b> Electric circuit with only one path through which to flow. 
<b>Parallel Circuit</b> A complete circuit with 2 or more paths through which the charge can flow. 	<b>In a series circuit,</b> it is constant that everything is the same. <b>In a parallel circuit,</b> it is constant that everything is the same.	<b>Ohm's Law</b> For a given resistance, current is proportional to voltage. $V = I \times R$	<b>Electrical Safety</b> Circuit Breakers Insulation Fuse Surge Protector

		
$V = I \times R$	$I = \frac{V}{R}$	$R = \frac{V}{I}$
		
$P = I \times V$	$I = \frac{P}{V}$	$V = \frac{P}{I}$

NAME	SYMBOL	UNITS
Voltage Difference	V	Volts
Electrical Current	I	Amperes
Resistance	R	Ohms
Power	P	Watts

# Study Sheet



# Physical Science Electricity Study Guide

**Fernando Wood Martin**



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