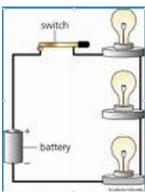
Electricity is generated from the motion of tiny charged atomic particles called electrons								
and protons. Electrons in different energy levels canjump from one atom to another.  These jumps change the overall _chargeof the atoms. Thechangesincharge result in electricity.								
Ohm's law states that the current (I) in a wire is equal to the voltage (V) divided by the resistance (R).  Current (I) = Voltage (V)/Resistance (R)								
A <u>circuit</u> is a path through which electricity can flow. Charges <u>will</u> flow in a circuit when there is potential difference.								
A circuit needs anenergy source topush a charge through the circuit.								
<ul> <li>A battery creates a potential difference between its negative and positive terminals</li> </ul>								
<ul> <li>Electric charges arerepelled by negative terminal andattracted toward the positive terminal</li> </ul>								
Aload is a device in a circuit that operates by using the electrical energy.								
• Examples of loads arelight bulbs,bells,radios,motors								
A <u>conductor</u> is a material that <u>allows</u> electrical energy to flow through it easily.  Metals make good conductors, so wires from metals are most often the conductors.								
A <u>resistor</u> is an object added to a circuit that <u>restrict</u> the flow of electrical energy.  Resistors <u>inhibit</u> the flow of electric current by producing a voltage drop when current passes through them. Resistors can be used to produce a desired <u>potential</u> <u>difference</u> . They limit current and cause some electric energy to be given off as the at								

A	switch	is a device t	hat is used to	contro	olthe	flow of c	urrent thro	ough a circuit.	A switch
work	s by separat	ing ,open	ingo	r bringing	together,_	_closing_	two co	nductors attac	hed to
the c	ircuit. Wher	n a switch is	open	, the pat	h is broker	ո, sor	าо	_electricity	flows
throu	igh the circu	iit. When a	switch is	closed,	it creates	a continu	uous path	through which	an
elect	ric charge _	can	flow	•					

A <u>series cicui</u> is a circuit that provides only <u>one</u> possible path for the flow of current. In a series circuit, the loads are set up in a series, or <u>l</u>, that requires current to flow through one load before passing through the next.



A <u>parallel circuit</u> offers \_more\_ \_than\_ \_one\_ path for the flow of electricity.

Each \_load \_in a parallel circuit has \_its \_own\_ closed circuit pathway to the energy source. Loads in a parallel circuit use the \_full\_ voltage\_ of the energy source.

