<u>Science 9 – Introduction to Current and Circuits (Current Electricity Notes 1)</u>

	that builds up on an object.
	This charge is '" in an uncontrolled way (when you rub your feet on the carpet an then shock someone, or like lightning).
	t Electricity Charge is used in a way – by allowing it to travel through a
_	A circuit is a for to flow through.
,	The charges flow from an energy source such as a to a device that uses the energy
	Parts of a Circuit
e	The energy source in a circuit provides positive terminal
	Wall plugs: electrical energy is delivered by
_	: energy from plastic insulator moist paste
	is turned into electrical energy
	A is a combination of one or more cells. A load is a device that electrical energy into
-	O A toaster converts electrical energy into energy.
	O A motor converts electrical energy into energy (the energy of movement).
(O Light bulb converts electrical energy into energy and energy.
h	
	The switch controls the of
	When a switch is, the pathway is so no charge flows through the
(circuit.
	When a switch is the path is and current does flow through the circuit.

D	rawing	Circuit	Diagrams

• When we draw diagrams of circuits, the different parts are represented by the symbols in the table on the right.

Example 1

A simple circuit with a single cell, a switch and a light bulb.

PART OF CIRCUIT	SYMBOL
Conducting Wire	
Cell	
Two-Cell Battery	
Open Switch	
Closed Switch	
Light Bulb (lamp)	
Ammeter	
Voltmeter	
Resistor	

Series and Parallel Circuits

In circuits, it is possible to have 2 different pathways:

in energies, it is possible to have 2 different pathways.					
Series: current must travel through	Parallel: current and some will go				
in circui	t through each device				

Example 2

A circuit consisting of a battery of 2 cells in series, an open switch, and 2 lamps in parallel.