

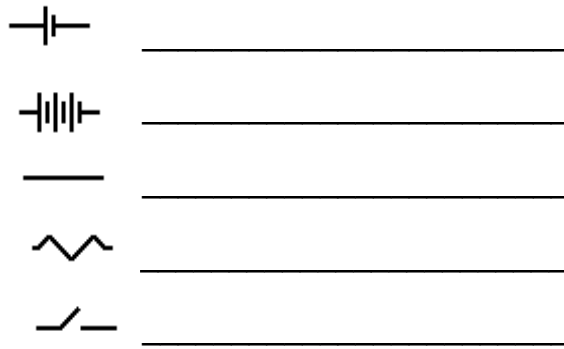
A Review of Circuits

SPH4C

A circuit consists of at least one power _____ (such as a _____) and one _____ (such as a _____).

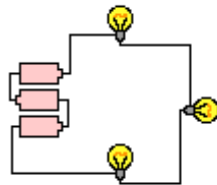
The two need to be connected in a complete, _____.

We can represent circuits with schematic diagrams using the following symbols:



Example:

Drawing of Circuit



Schematic Diagram of Circuit

To measure the current (I) in an electrical circuit, an _____ may be placed in the circuit:

Schematic:

The voltage across any part of a circuit may be measured by placing a _____ across it:

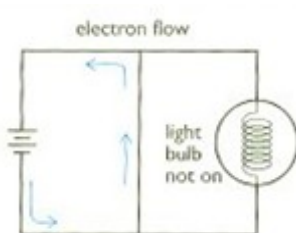
Schematic:

The power (in _____) delivered to a circuit or consumed by a load is:

Example: A 9-V battery is connected to a load that draws 2 A.
What is the power consumed by the load?

Remember never to make a circuit connecting one terminal of the battery to the other without something to consume the power (such as a light bulb) in between.

This would be a _____.



Note that in this diagram, there are two possible paths for charge.

One of them does not contain a load.

The charge will follow the path without a load – the path of “least resistance.”

More on resistance later. . . .