

## Mixed Media Multimeter

In this activity, you will use the material you have learned about series and parallel circuit connections, as well as your knowledge of how a multimeter works.

## Series and Parallel Circuits

Series and parallel are circuit connection types.  
Parallel connections come together at two points.  
Series connections come together at one point.

## Ground

Electricity flows to ground in a circuit. The ground is the point of lowest electrical potential.

## Schematic Symbols

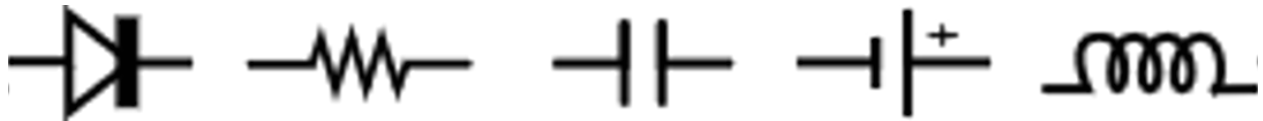
Diode

Resistor

Capacitor

DC Power

Inductor



## Activity: Line Test

Draw and label the above schematic symbols with your materials – each symbol on a half sheet of paper. Measure the resistance and measure the length (approximate if curvy lines) of each conductive line you draw. Log the data in a table. If the material on your drawing is not conductive, you do not need to measure the resistance or length of the line.

Bonus:

Calculate the average conductivity of each material per 1 cm.