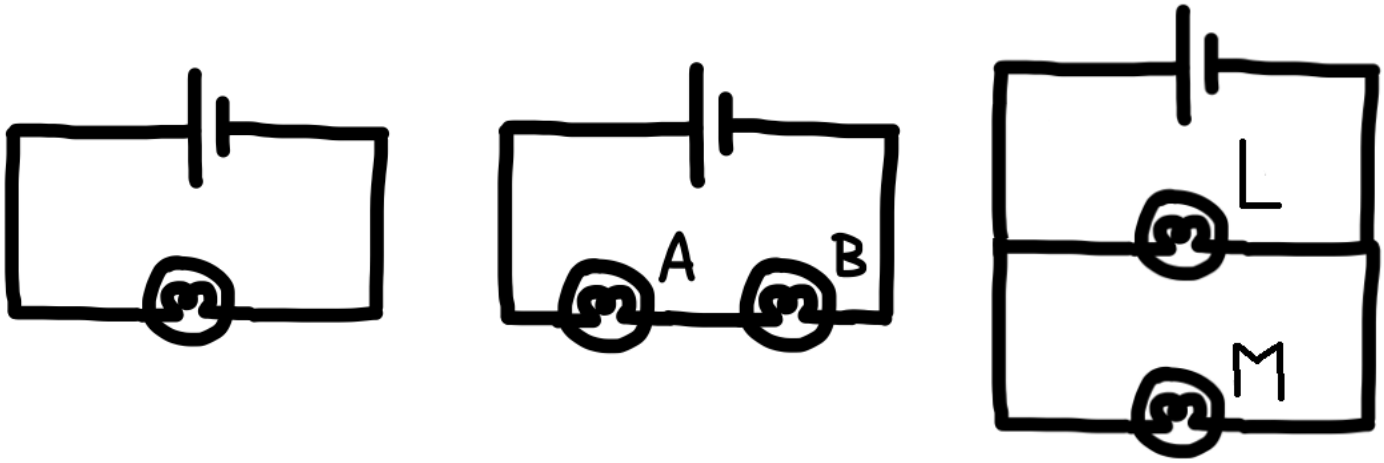
Circuits Simulation

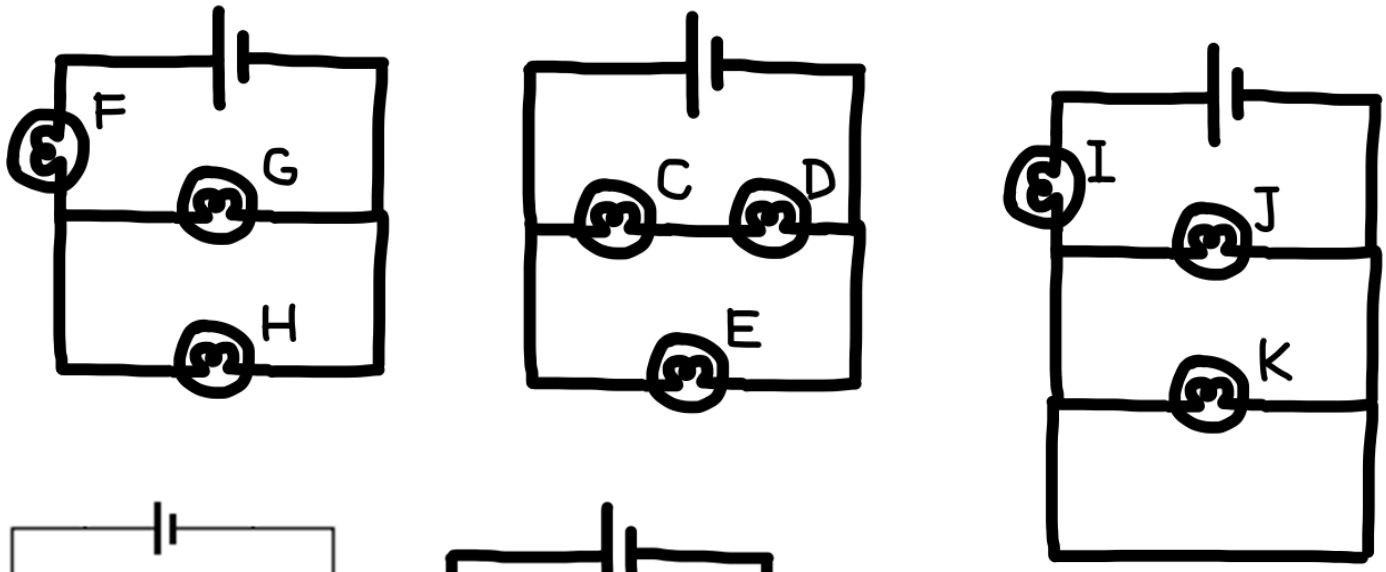
Objective

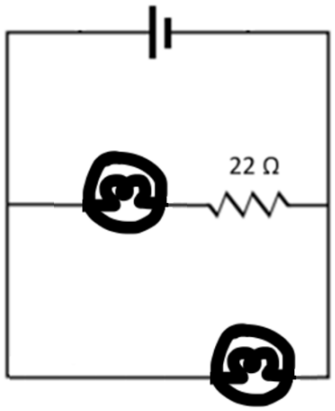
Investigate current, voltage, and resistance of lightbulbs in different circuits

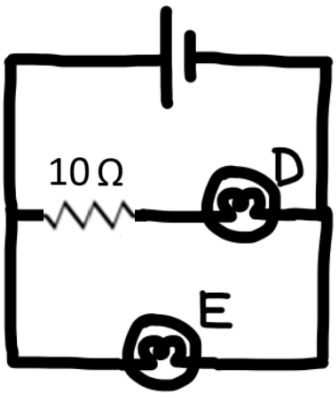
Procedure For Each Circuit.

1. Construct a matching circuit with batteries and lightbulbs.
2. Measure Voltage Drain (V) for each light bulb and for the total circuit.
3. Measure Current (I) into each lightbulb and through the total circuit.
4. Build a table to organize your data and calculate the remaining unknown values.





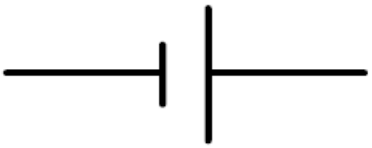




What impact does a resistor have on the brightness of a bulb?

How many ways can you connect one battery and three resistors? Draw a circuit diagram for each.

Battery:



Resistor: