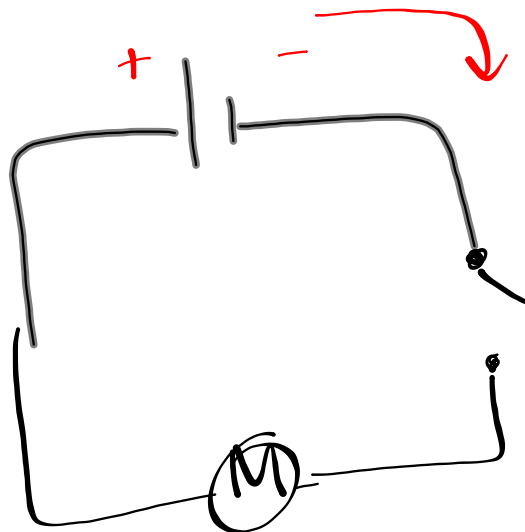


Warm - Up

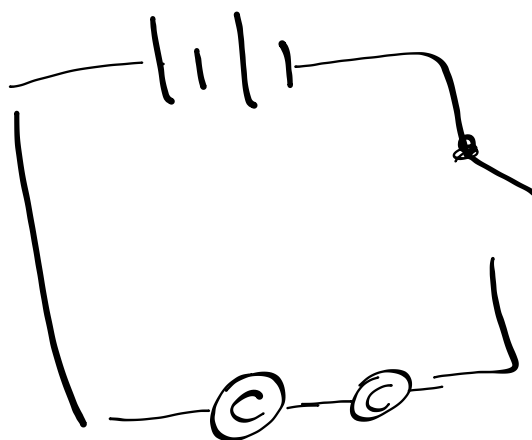
Draw a circuit that could be used to power a motor. (remember it must have 4 parts)



Answers Circuit Diagram Assignment

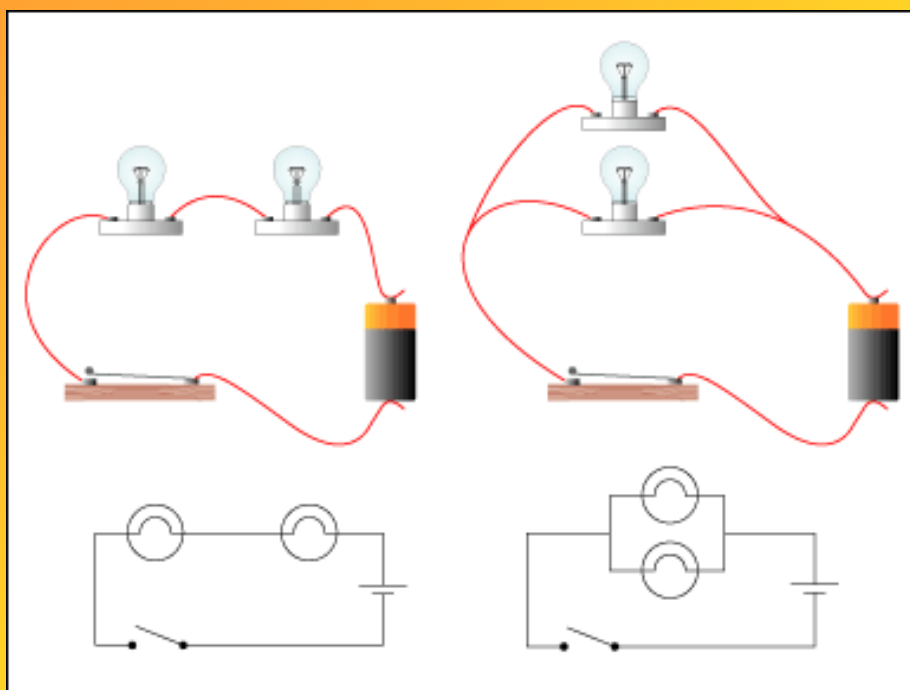


c)



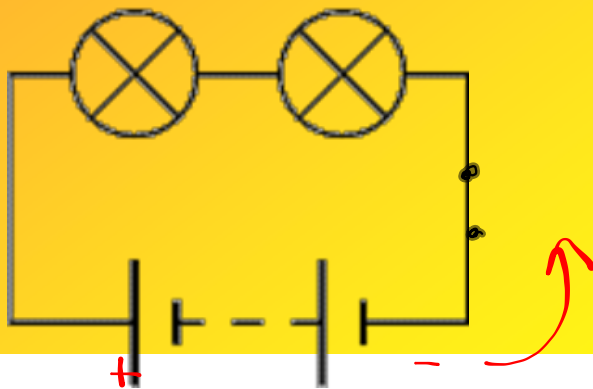
1

Series and Parallel Circuits



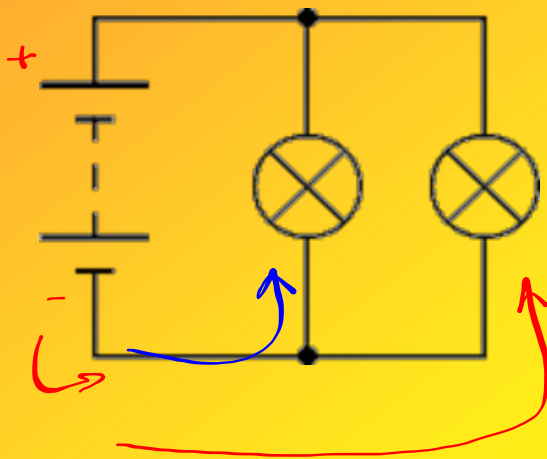
The Series Circuit

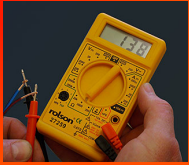
- This term applies to any electric circuit in which the parts of the circuit are wired to one another in a single path.
- The electricity has only one path to follow.
- Example: the old Christmas lights that when one light went out they all went out.



Parallel Circuits

- In a parallel circuit, current passes through a separate circuit to each part. Each separate circuit is called a branch circuit.
- Ex. when one bulb goes out in a string of lights the others are not effected.





Electrical Resistance



- The molecules of all types of conductors impede or resist, the flow of electrons to some extent.
- This ability to slow the flow of electrons is called electrical resistance.
- Electrical resistors are devices that are used for this purpose.
- The unit for resistance is the ohm (Ω), and the symbol is R.

Attachments

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