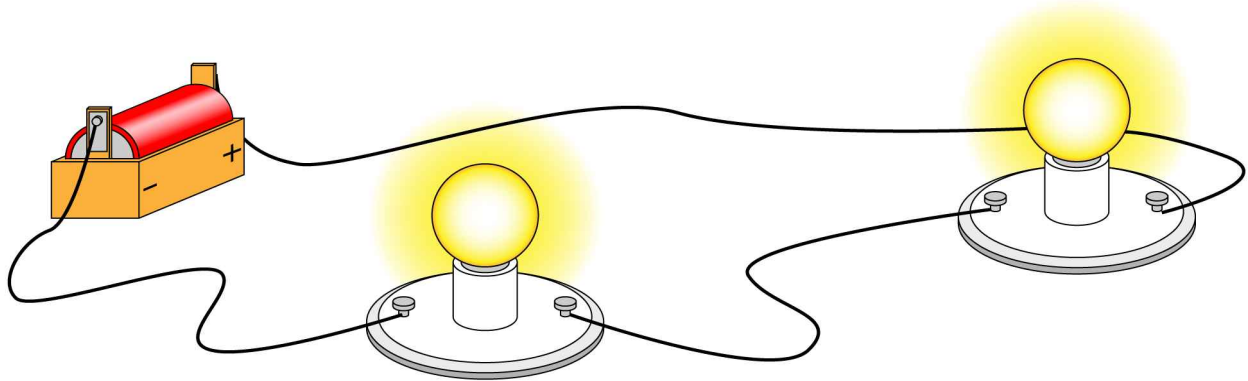


Name: _____

Series and Parallel Circuits

In a **series circuit** electricity has only one path to follow. All parts are connected one after another. Electrons flow from the negative side of the battery around in a loop to the positive side.

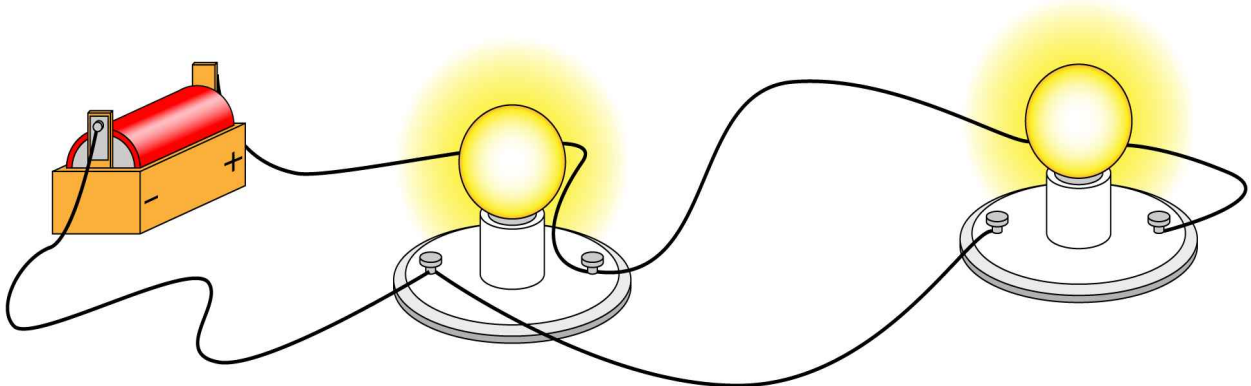
Draw arrows to show the path the electrons move in this series circuit.



If a light bulb is missing or broken in a series circuit, will the other bulb light? Explain.

In a **parallel circuit**, electricity has more than one path to follow. Electrons can follow different paths as they flow from the negative side of the battery to the positive side.

Draw arrows to show the different paths electrons can travel in this parallel circuit.



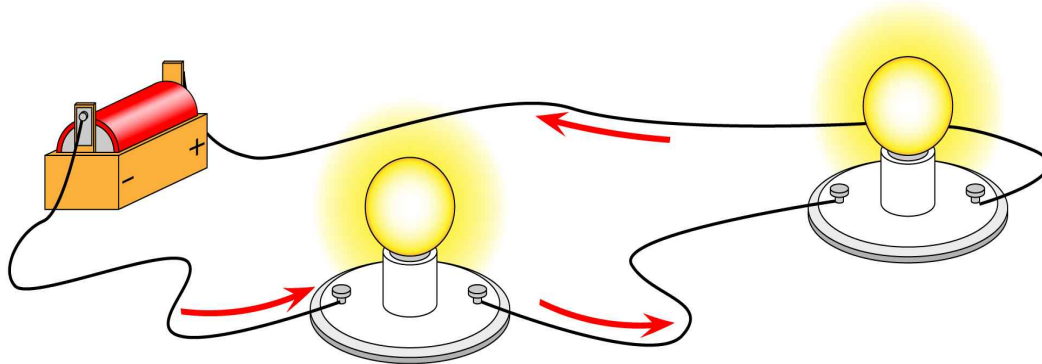
If a light bulb is missing or broken in a parallel circuit, will the other bulb light? Explain.

ANSWER KEY

Series and Parallel Circuits

In a **series circuit** electricity has only one path to follow. All parts are connected one after another. Electrons flow from the negative side of the battery around in a loop to the positive side.

Draw arrows to show the path the electrons move in this series circuit.

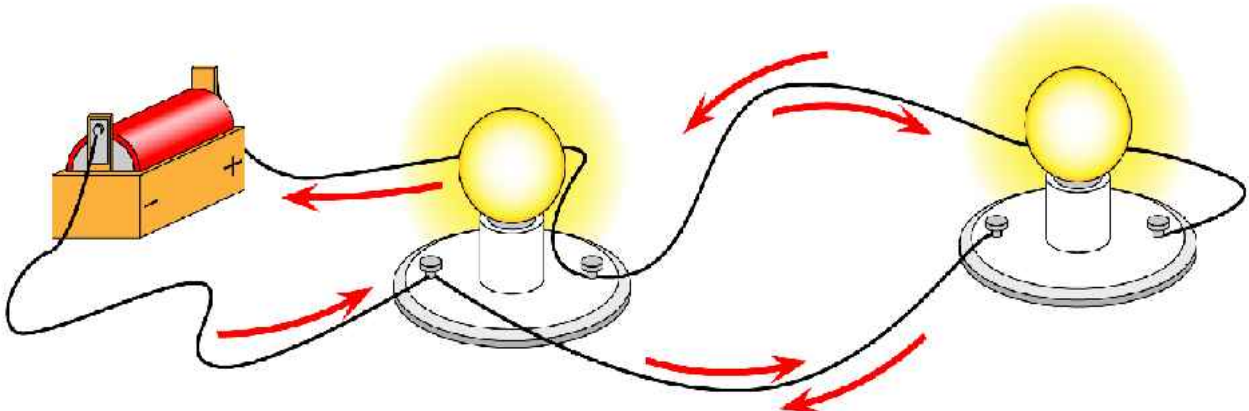


If a light bulb is missing or broken in a series circuit, will the other bulb light? Explain.

No because the path the electricity needs to follow is broken.

In a **parallel circuit**, electricity has more than one path to follow. Electrons can follow different paths as they flow from the negative side of the battery to the positive side.

Draw arrows to show the different paths electrons can travel in this parallel circuit.



If a light bulb is missing or broken in a parallel circuit, will the other bulb light? Explain.

Yes because the electricity can travel along a different path and avoid the broken bulb.