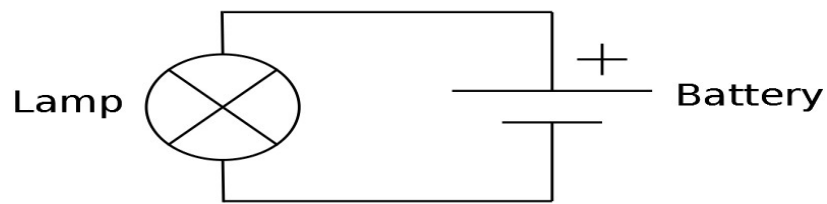
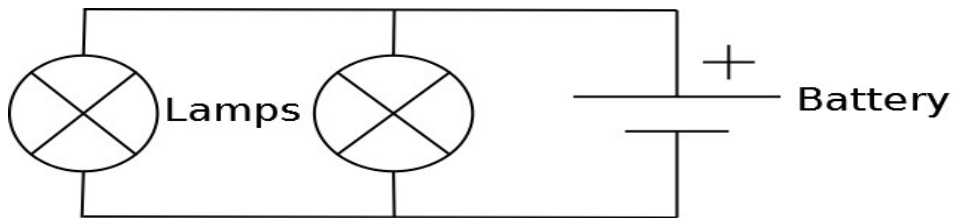


Wiring Lights in Series and Parallel

Below is the normal circuit of a lamp connected to a battery or power source.



Next below is the normal circuit for connecting two lamps to a battery. The way the lamps are wired is called parallel wiring. In this arrangement both leads of both lamps are connected to both leads of the battery. When there are two lamps connected to a battery parallel wiring is the most common method used because if one lamp fails the other will still work.



Finally below is the other way of wiring two lamps to a power source, which is called series wiring. Note that each light only takes half of the voltage of the power source, so this allows two 6 volt lamps to be wired to a 12v battery. The disadvantage is that if one lamp fails the other will not light. Note that only one wire from each lamp is connected to the battery. Each lamp's other wire is connected to the other lamp.

