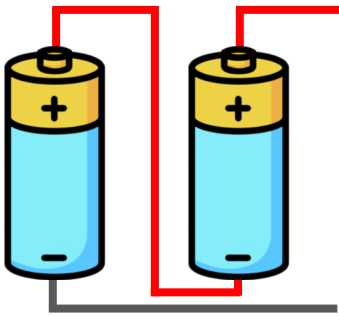




How to Connect Batteries in Series and Parallel?

When using batteries to power circuits, we often put the batteries in **series** or **parallel**. However, there are some key rules to follow when connecting batteries.

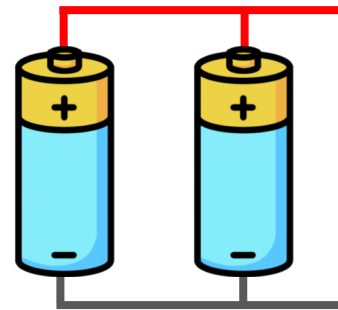
Batteries in Series



These batteries are connected end-to-end making a single path for current to flow.

These batteries have all of their anodes connected together and all of their cathodes connected together.

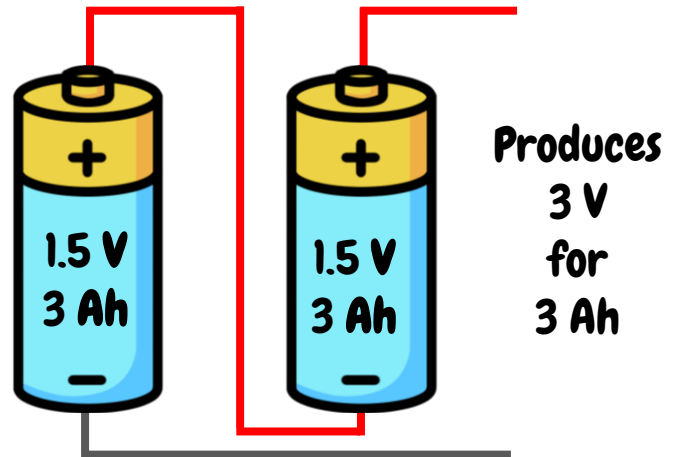
Batteries in Parallel



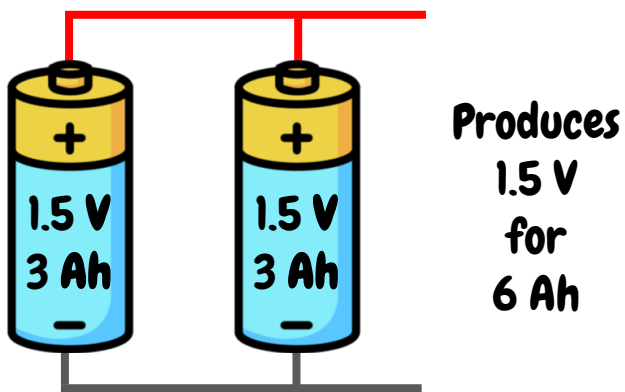
How to calculate voltage and amperage?

Batteries in series will provide more voltage for the same amount of time because all the batteries are providing electricity at once.

BATTERIES IN SERIES



BATTERIES IN PARALLEL



Batteries in parallel will last longer than one battery because the load is being split between all the batteries.

Whenever connecting batteries together make sure you always are connecting batteries together that have the same **voltage** and the same **amperage**. **NEVER** connect a rechargeable battery to a disposable battery.

