Source: [[KBPhysicsMasterIndex]]

1 | Circuits

First, some key vocab:

Current

Current is a measure for the flow of electrons. Think about it as "how much water goes through this arbitrary box on this river per second". See ||KBhPHYS201Current|

Resistance

KBhPHYS201Resistance Resistance

#disorganized, and split [KBhPHYS201Resistance] Resistance and Current

- · Multiples battries can't be solved with the combined resistor method
- · So, first guess the current flow
 - · Each batteries' current will flow back to itself
 - · When currents meet, they will combine
- Use currents identified before + Kirkoff's second law
- Use Kirkoff's first law to find loops (and hence equations) that, together, covers all components
- If resulting currents is negative, that means that you drew the current in the wrong direction, or you are charging a battery
 - Either way, if the signs are preserved to solve the rest of the equation, you should be fine numerically
 - · Just update your graph to reflect the actual currents' directions

LED longer leg is positive