Source: [KBPhysicsMasterIndex]

## 1 | Circuits

In them, flows [KBhPHYS201Resistance] Resistance and Current #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