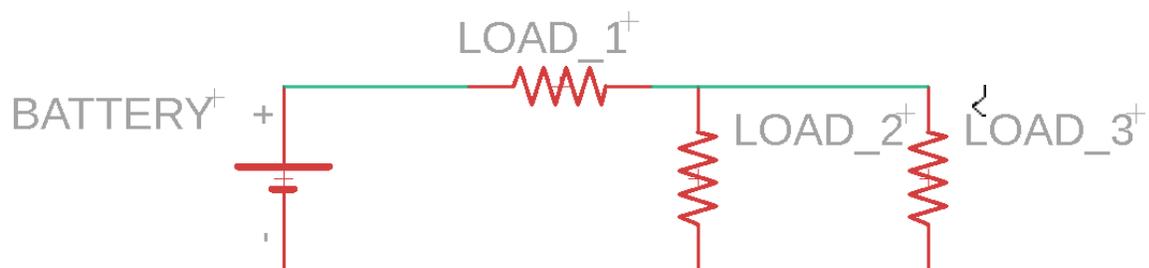


## Ohm's Law

Before starting this worksheet, make sure you have read the Drone Physics handout and the Multimeter worksheet to understand Ohm's law and your multimeter. Use your knowledge to solve the following problems!

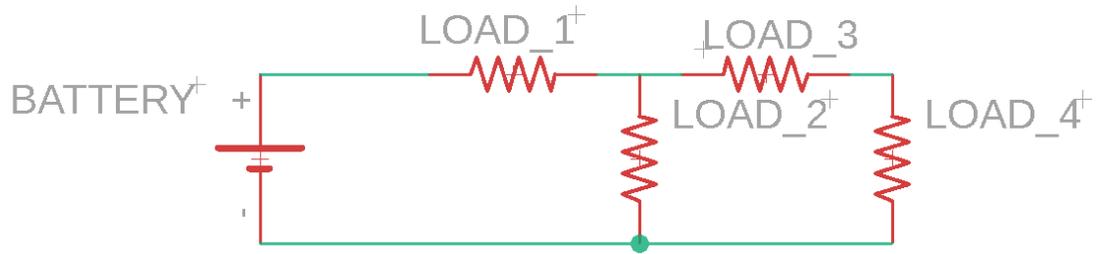
1. Label each connection as series or parallel. (There will be both on a circuit!)
  - Example: Load\_2 and Load\_3 are in parallel. Load\_1 is in series with the parallel combination of Load\_2 and Load\_3.



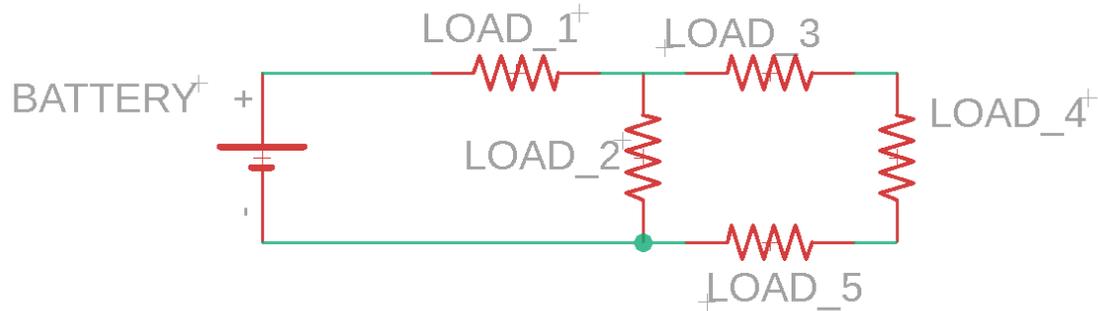
a.



b.



c.



2. Answer each question about Ohm's law and circuit theory.
  - a. Explain why you never want to connect a wire between two terminals on a 9 V battery.
  - b. Explain why your series circuit won't work if you removed a load. Do you think a parallel circuit would still work if you removed a load? Why or why not?
  - c. How does a multimeter work?
  - d. If you add more silver ink to your drawing, will the resistance go up or down, explain your reasoning?