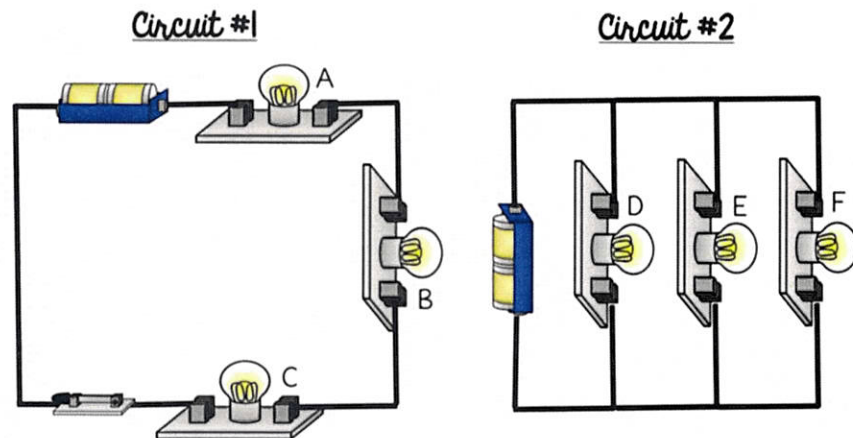


## Practice: Circuit Drawing

**Part 1:** Answer the following questions using the pictures below.



1. Is Circuit #1 series or parallel? What about Circuit #2? Explain how you know.
2. How many pathways are there in Circuit #1 for current to travel through?
3. How many pathways are there in Circuit #2 for current to travel through?
4. If bulb A burns out, will bulb C still light? Explain why or why not.
5. If bulb D burns out, will bulb F still light? Explain why or why not.
6. Use circuit notation to draw Circuit #1 below.

7. Use circuit notation to draw Circuit #2 below.

**Part 2:** *Draw a diagram of the following circuits.*

8. Draw a series circuit with 3 light bulbs, an ammeter, a resistor, a switch, and two batteries.
9. Draw a parallel circuit with 2 light bulbs, 3 switches and a battery. Each light bulb should have its own switch, and there should be a switch to turn the whole circuit off.
10. **Challenge:** Draw a circuit with two light bulbs wired in parallel to each other, and a third light bulb in series to the other two. Include a battery and a switch to turn the whole circuit off.