**Unit 2 Notebook: Electricity and Magnetism**

 **Exit Pass: Lesson 7**

**Series and Parallel Circuits**

Complete the following:

1 You have been given a battery, some wire, and a light bulb. Construct a diagram to show how you would use these items to make the light bulb light up. (You may draw a circuit, copy and paste images from the course or take a photo of your drawing and submit. Explain how you know it will work.

1. Why are electrical circuits in your home not connected in a single loop?
2. Explain why three bulbs in a circuit connected in separate loops will glow brighter than three bulbs in a circuit connected in a single loop.
3. Jeremy has been asked by his boss to build a circuit with two lamps and a motor, where the motor can be turned on without turning on the lamps. Please draw the circuit and write create a legend to organize your circuit. Explain further if needed.

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