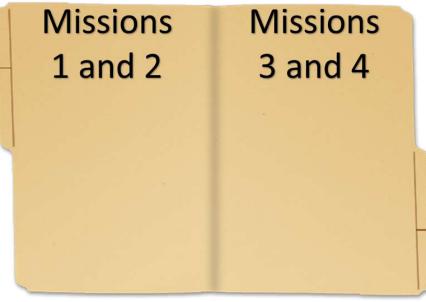
You Light Up My Life

Performance

- Secure the materials you have been given onto the perimeter of the left side of the open file folder in such a way that 1 light bulb turns on.
 - File Folder
 - Aluminum foil
 - 9V battery
 - Christmas light bulb with wires attached.
 - Masking Tape





- Once you are able to light ONE light bulb, modify your circuit so that a SECOND bulb will also turn on.
 - File Folder
 - Aluminum foil
 - 9V battery
 - Christmas light bulb with wires attached.



Group Performance: Mission 3

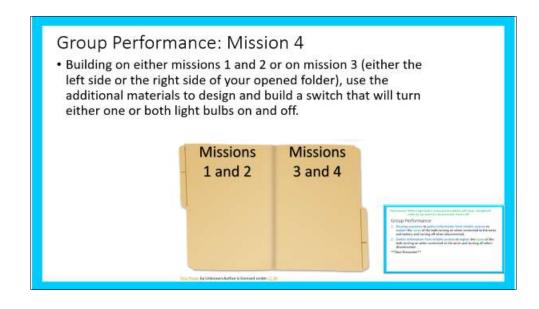
 On the right side of the opened folder, design and build a circuit that will light up BOTH bulbs in such a way that will allow you to DISCONNECT one bulb while the second bulb remains lit.



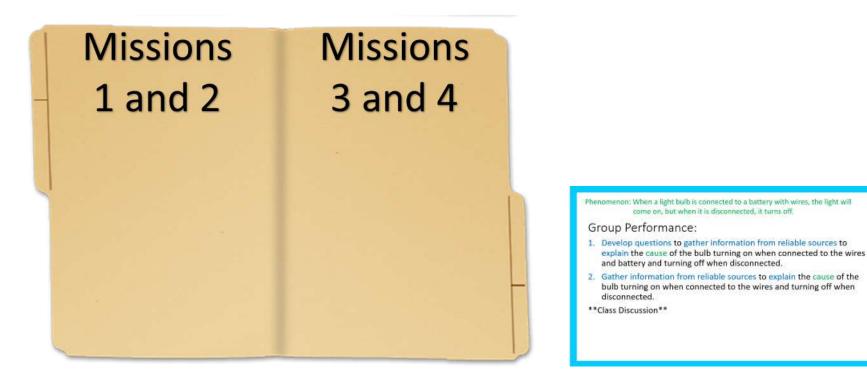


 On the right side of the opened folder, design and build a circuit that will light up BOTH bulbs in such a way that will allow you to DISCONNECT one bulb while the second bulb remains lit.





• Building on either missions 1 and 2 or on mission 3 (either the left side or the right side of your opened folder), use the additional materials to design and build a switch that will turn either one or both light bulbs on and off.



Phenomenon: When a light bulb is connected to a battery with wires, the light will come on, but when it is disconnected, it turns off.

Group Performance:

- 1. Develop questions to gather information from reliable sources to explain the cause of the bulb turning on when connected to the wires and battery and turning off when disconnected.
- 2. Gather information from reliable sources to explain the cause of the bulb turning on when connected to the wires and turning off when disconnected.

******Class Discussion******

Phenomenon: When a light bulb is connected to a battery with wires, the light will come on, but when it is disconnected, it turns off.

Group Performance:

3. Develop a model and use it to explain the cause of the lightbulb turning on when connected and turning off when disconnected.

Individual Performance:

4. Construct an explanation for the cause of the lightbulb turning on when connected and turning off when disconnected.

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