Name:

Lighting a Bulb Lab Simulation

Learning target: I can use the simulation to explore electricity in order to make a light bulb light.

1. Explore: Take 5 minutes to explore the simulation: Circuit Construction Kit: DC
2. Use the toolbar on the left side of the simulation. Try to create different pathways to light the bulb. Fill in the table below.

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| Components (parts) I used to create a circuit. | Did it light the bulb? **Yes or No** |
| 2 wires, light bulb, and a battery | Yes |
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**Clear your simulation using the yellow circle button on the bottom right side of your simulation.**

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| **Predict:** What do you think would happen if you use 3 batteries and 1 light bulb in your circuit? |

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| **Test:** Build a circuit using 3 batteries, 1 light bulb, and 3 wires. What do you notice about the light bulb’s brightness? |

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| **Predict**: What do you think will happen to the bulb’s brightness if you build a circuit with 3 light bulbs and 1 battery? Why? |

**Clear your simulation using the yellow circle button on the bottom right side of your simulation.**

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| **Test:** Build a circuit with 3 light bulbs and 1 battery. Remember the battery and light bulbs must all be connected using the wire. What do you notice about the brightness of the light bulb? |

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| Take one wire away by clicking it and putting it in the trash can. What happens to the light bulbs? Why do you think that happens? |