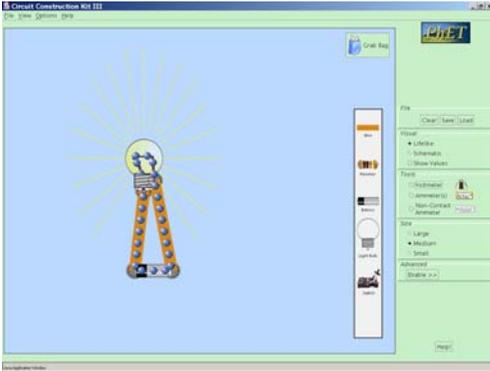


## Evaluating Sim-coupled Activities - CCK

### Sample Activity Type A:

1. Start up the CCK simulation and create the following circuit.



- What is the current through the bulb when the battery is 9 V and the resistor is 10 ohms?
  - Decrease the bulb's resistance to 5 ohms. (*Right-click on components to change their settings*) What happens?
  - Increase the voltage of the battery. What happens?
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### Sample Activity Type B:

1. You are making a doll house for your little sister and you want to put a light in the living room. You go to Radio Shack and the salesman gives you a light bulb, some wires, a switch, and a battery. Show how you think these would need to be connected.

2. Start up the CCK simulation and test the circuit you drew in question 1.

a. If you had to make changes to your plans, draw a correct circuit and explain why your first idea didn't work.

b. Play around with your circuit to find out what changes could you make to your design to get a brighter light (list as many approaches as you can). Explain your reasoning for why these changes lead to a brighter flashlight. (*Right-click on components to change their settings, and use the voltmeter and ammeter to measure voltage difference and current*)

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1. Which guidelines do you feel are applied in this activity?

2. What changes were made to align this activity with the guidelines?

2. How do you think aligning the activity with the guidelines will affect student learning? Discuss your thinking with your partner.