

Engineering Simulation Lab

Introduction to Circuits

This lab uses the [Circuit Construction Kit DC](https://phet.colorado.edu/sims/html/circuit-construction-kit-dc/latest/circuit-construction-kit-dc_en.html) simulation from PhET Interactive Simulations at University of Colorado Boulder, under the CC-BY 4.0 license.

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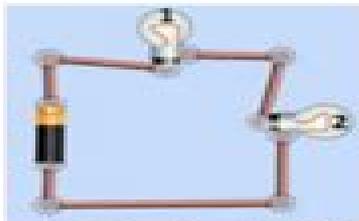
Learning Goals

- Explore basic electricity relationships.
- Explain basic electricity relationships in series and parallel circuits.
- Use an ammeter and voltmeter to take readings in circuits.
- Provide reasoning to explain the measurements and relationships in circuits.

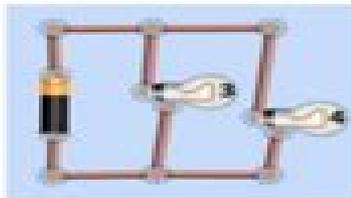
Prediction Questions

Consider the pictures of each of these circuits, then answer the questions below.

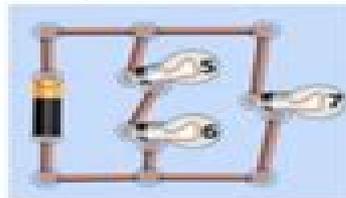
Series Circuit



Parallel Circuit



Complex Circuit



1. From the circuits above, predict which bulb (or bulbs) will be the brightest. Why do you think that?

Write your answer here:

2. Current is the flow of charge (measured in coulombs/sec = amps) in a circuit. Describe how you think current will flow in the different types of circuits above.

Develop your understanding:

3. Explore the [Intro](#) screen of Circuit Construction Kit DC
 - a. Build a circuit that shows how to make a light bulb light up.
 - b. Figure out how to measure current and voltage.
 - c. Insert an image of your circuit with the current and voltage measured.
4. Imagine you're an engineer making a string of battery powered holiday lights. If a bulb burns out current cannot flow through that bulb any longer like if the wire at the bulb has been cut. Figure out how to hook up 2 light bulbs and a battery so that when one bulb burns out or is disconnected the other stays lit.
 - a. Insert images to illustrate that your circuit works as expected.
 - b. Explain why you think it works.

Write your answer here:

5. Imagine that you want to make sure the battery for your string of lights will last as long as possible. A battery will last longer if it powers a circuit with low current. How could you hook up a battery and 2 light

Circuit Simulation Lab Answers

Farzin Asadi



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