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STEM Sims

Lesson 4: Graphing Sources

A graph can convey a lot of data about the operation of a direct current source. However, many times students struggle with interpreting these graphs. Can you figure out what information is contained in a DC source graph?

Doing the Science

- 1. Start the Betavoltaics Simulation by clicking on the "Sim" tab.
- 2. Click on the Ag/Zn direct current sources located at the top of the screen.
- 3. Click the red "Start" button on the source testing device.
- 4. Click the "Graph" button on the right side of the screen.
- 5. Answer question #1 in the Do You Understand section below.
- 6. Click the "Data" button and review the information provided about the Ag/Zn source.
- 7. Use the "Graph" and "Data" buttons to determine which information in the graph is different from the written data provided about Ag/Zn.
- 8. Answer questions #2-4 in the Do You Understand section below.

Do You Understand?

- 1. How many points currently appear in the graph? What three pieces of information are provided in the graph?
- 2. Which AG/Zn source information in the Graph does not match the data provided in the written section?
- 3. Please describe a possible reason for the discrepancy you noted in question #2.
- 4. Describe how the graph could have been better constructed to avoid the problem of mismatched information in the Graph versus Data displays.