AP PHYSICS TOPIC: DC CIRCUITS (LAB #14)

In this lab you will create various electrical circuits using the simulation. Take measurements of current and voltage drops across resistors in your circuits.

In this lab you will go to: http://phet.colorado.edu/en/simulation/circuit-construction-kit-dc

Your mission is to use the simulation to determine the relationship between current through a resistor and the voltage across the resistor.

Your write-up should include:

- **♦ Objective:** What was being investigated? What were you trying to find?
- **Theory:** What's going on? Include here the equations you will be using and any needed manipulations of them. They should be clearly explained, with connections to physical laws and diagrams where appropriate.
- ↑ Method: Description of the procedure you used, including materials and diagrams where necessary.
- **▶ Data:** Observations from doing the experiment; graph(s) of data.
- ➢ Discussion: Discuss the experiment. Draw conclusions from data; suggest ways to improve the experiment and/or further investigations.