

Objective:

Procedure – *This lab will be performed using PhET Circuit Construction Kit (DC only)*

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Data

CONSTANT =

CONSTANT =

Calculations – *include one sample for anything calculated in the lab.*

Only if calculations were performed...

Graph – Use logger pro to provide a sketch of the analyzed variables.



Conclusions – Always answer these questions for a “relationship” lab.

- What are the relationships for current & voltage and current & resistance?

- What are the general equations of the resulting lines/curves?

- What are the translated equations?

- Look at the constants (m and A) from each translated equation separately. How does m relate to the variable held constant in that part of the experiment? How does A relate to the variable held constant in that part of the experiment?

- If you double the independent variable, specifically what happens to the dependent variable for each?