Follow along with the example design iterations in Studio by completing this worksheet.
Submit your completed worksheet to your instructor before the start of Week 3 Studio.

1. Label the figure below with the values for $V\_{S}$ and $R\_{S}$ chosen by your group.

$$I$$

$R\_{S}$ **=**

$R\_{L}$ **=**

$V\_{S}$ **=**

Next you will build the circuit on a breadboard and test it by following the instructions in Studio.

$V\_{S}$ **=**

1. Record the voltage measurement of your power supply:

$I$ **=**

1. Record the current measurement of your circuit design:

You will redesign your circuit based on some design decisions in Studio. You will be asked to modify your existing circuit and collect new measurement data.

1. Label the figure below with the new values for $V\_{S}$ and $R\_{S}$ chosen by your group.



$R\_{L}$ **=**

$$I$$

$V\_{f}$ **=**

$V\_{S}$ **=**

$R\_{S}$ **=**

$V\_{S}$ **=**

1. Record the new voltage measurement of your power supply:

$I$ **=**

1. Record the new current measurement of your circuit design:
2. Capture a picture of your final circuit design. Paste the picture into a word processor and appropriately label the figure according to the format for technical reports and memos (available on the Studio website). Print and attach the labeled figure to this worksheet.