Lab 1 Grading Standard:

- *In grading, do not explicitly assign points to the various sections. Rather, take points off for incorrect, incomplete or missing items.*
- *When you take point off, be sure to write a short comment as to why the points were lost.*
- *Example: (-1) What is the measured value of the component?*
  (-3) What is the mathematical formula that you are
  - *plotting on top of your data?*

Pre-lab Signature:	10
Purpose/Introduction	5
Passive Elements I-V Curves	
Procedure with Circuit	5
Data per element 2/	10
Plots: I-V Curves	10
Power Curves	
1k-Omh, 47 Ohm, Zener, LEDs, Lightbulb	
Active Element I-V Curves	
Procedure with Circuits	5
Battery Data + Plot + Comments on curve	10
Current Source Data + Plot + Comments on Curve	10
Voltage Divider Data + Plot – how does curve compare	10
to the expected curve?	
The R-2-R Ladder	
Procedure with Circuit	5
Building circuit with measured resistances and expected values.	5
Determine Vth and Rth for the ladder.	5
Practical determination of Vth and Rth	5
Conclusion/Summary	5

General Notes:

- The axis of all plots must be labeled. This should include the quantity, the units and numerical values.
- The boxed questions should be answered in the lab book.
- Procedures must have a circuit diagram.
- Measured values of components used should be recorded in the lab book.

Missing units on components, plot axes, tables … (-1 per occurrence).
Missing plot (-4 per occurrence).
Missing axes labels on plots (-1 per label).
Missing column labels on tables (-1 per label).
No fit to linear curves (-2 per occurrence).
No fit values with units (-2 per occurrence).
No comparison of fit values with expectations when possible (-2 per occurrence).
Missing theoretical calculations when expected (-3 per occurrence).