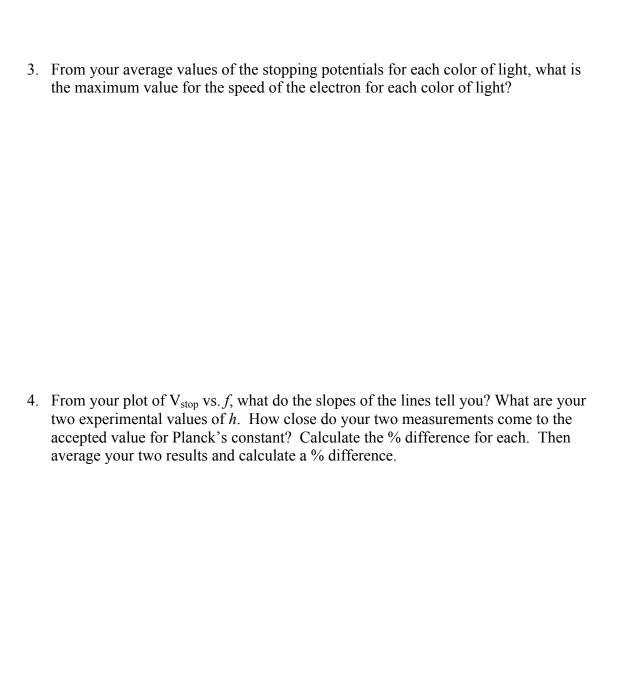
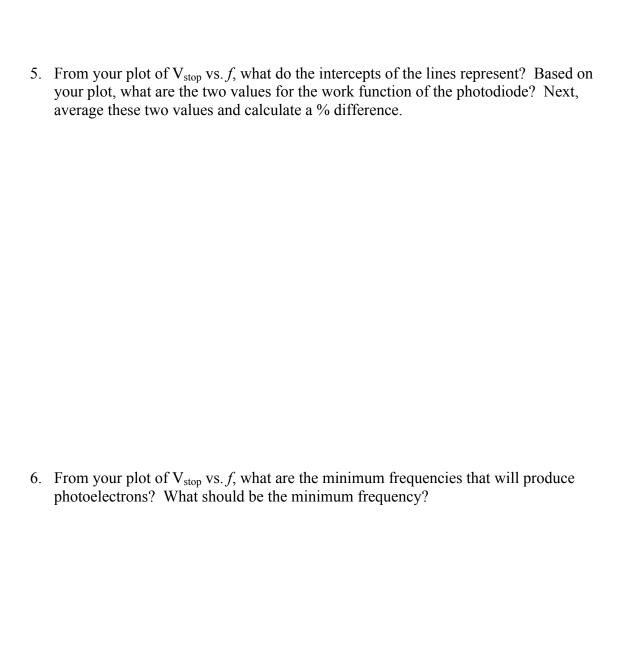
Name
Lab Partner(s):
Date Performed:
Date Due: March 11, 2014
Physics 111 Laboratory
Experiment #6
Photoelectric Effect
Attach your fully labeled and captioned data tables for each part along with any fully labeled and captioned graphical representations of your data that you may have created to the end of this handout.
Honor Code Statement:
1. What assumptions do you need to make to perform this experiment?

2. From your plot of  $V_{\text{stop}}$  vs. f for the different colors you measured, are your data consistent with this Einstein's model for the photoelectric effect? Explain.





7.	From your plot of the stopping potential versus intensity of light transmitted for each color of light, what does your plot show? Based on the plot, do your results support the fact that light behaves as a wave or a particle. Be sure to fully explain your answer and show how your plot supports your choice.