

5. From your plot of V_{stop} vs. f , what do the intercepts of the lines represent? Based on your plot, what are the two values for the work function of the photodiode? Next, average these two values and calculate a % difference.

6. From your plot of V_{stop} vs. f , what are the minimum frequencies that will produce photoelectrons? What should be the minimum frequency?

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.