

EXPERIMENT 1

SPECTROPHOTOMETRY

PRELAB EXERCISES

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PROFESSOR: Engr. Sherrie Mae Vinluan SCORE:

1. Describe the operation of spectrophotometer.

- A spectrophotometer is an instrument that measures the amount of photons absorbed after it passes through sample solution. The basic principle that each compound absorbs or transmits light at different wavelength.



- A spectrophotometer consists of two devices: spectrometer and photometer. Spectrophotometer produces desired wavelength of light. A lens transmit a straight beam of light that passes through a prism which separates the light into different spectrum. The photometer then detects the amount of light/photons that are absorbed and sends signal to a digital display.

2. Discuss the different factors that affect the absorbance of a solution.

- The Beer-Lambert's Law states that the absorbance is directly proportional to the concentration of the solution sample and also directly proportional to the length of the light path. For example, you have a heavily colored dye, since it is a concentrated

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