

Name_____

Absorption Spectroscopy Worksheet

Observations

Draw your observations in the seven boxes below using colored pencils.

I	Electromagnetic spectrum
Potasium permanganate	Copper(II) chloride
Yellow solution	Orange solution
Erhium chloride	Praseodymium chloride

Post-Lab Questions

Use the pie chart presented to assist in answering Questions #1 and #2. Colors opposite each other on this wheel are known as complements.



- 1. Compare the relationship between the blue solution and orange solution in terms of their absorbance of visible light and the definition of complementary colors?
- 2. If a green solution had been placed on the overhead, predict which colors of light would be absorbed and which colors would be allowed to pass through.
- 3. What do the spectra of the rare earth elements, erbium and praseodymium, demonstrate?
- 4. Did erbium and praseodymium yield the results you initially predicted? Why or why not?