Flame Tests as Evidence of Energy Levels Lab Report Instructions

The Flame Test lab report must in include the following in the order listed.

Title, Name, Date

Introduction

* The introduction should be one or two paragraphs explaining the purpose and the concepts or theories that relate to the lab.
* A brief discussion of the procedure and why this procedure will satisfy the purpose.

Materials and Procedure

* In paragraph form, describe the procedure and materials needed to satisfy the purpose. Use general terms in your discussion. A diagram of any lab ware set up is always useful.

Observations and Data

* In this section, report all observations and data recorded in your lab notebooks, *i.e.*, colors and wavelengths for each sample as well as a diagram of the emission spectrum.

Calculations

* Show one example for the required calculations and report the rest in an organized table.

Analysis

* Identify the unknowns and justify your choices using all manners of investigation that you used. Cite any websites if you used them. Relate your analysis to the introductory paragraph, data and procedures.
* Discuss any errors or limitations and ways to improve your results.