Flame Test Lab

Objective: Determine the unknown substance using the Flame Test.

Procedure:

1. We are using Bunsen burners in this lab so check for loose sleeves and long hair.
2. There will be chemicals located at each station. After testing your chemicals we will be rotating stations as a class.
3. Located at each station will be a beaker full of mild solution of Acid and couple of nickel cadmium wires.
    - The acid is going to be used to clean the wires.
    - Leaving wires sit in beakers is a spill accident waiting to happen.
4. Light Bunsen burner.
5. Dip wire into acid.
6. Burn acid off of wire.
7. Dip wire into chemicals.
    - Do not "double dip"
8. Burn chemical off the wire.
9. Record results in a table in the data section.
10. Repeat steps 5-9 with next chemical

Questions:

1. When an atom is heated an electron is pushed into its _____ state.

2. Normally an electron resides in its _____ state.

3. Light is given off in the form of small packets of energy called _____.

4. When electrons are move to higher energy levels light is produced (true or false) explain.

5. The light that is produced by a substance can identify the substance (true or false). Explain.

(Headings)

Objective:

Procedure

(Draw pictures)

Data:

(Draw Data tables here)

Calculations