

Sample Lab Report

*Please do ALL labs in this format unless instructed otherwise!!!*

*NOTE: This is a sample to use as a format.*

*For writing YOUR reports, substitute YOUR data and information.*

*Please use Times New Roman, 12 pt font for your labs.*

**Lab Name:** Identifying Common Minerals

**Your Name:** Mav E. Rick

**Date:** 08/14/15

**Purpose:**

The purpose of this lab is to identify unknown minerals using their physical properties and a classification key.

**Hypothesis:**

If I run tests to determine the physical properties of a mineral and apply those properties to a dichotomous key, then I will be able to identify five different unknown mineral samples.

[NOTE: Cause & Effect]

**Procedure:**

* I recorded the colors of the mineral samples.
* I ran a streak test on each sample by scratching each against a white porcelain tile to see if I produced a colored powder.
* Then…

[NOTE: List format is acceptable!!!]

**Variable:**

Identify the independent and dependent variables in your experiment.

The independent variable causes the dependent variable to change. (The dependent variable is “dependent” on the independent variable)

**Example: Students watched a cartoon either alone or with others and then rated how funny they found the cartoon to be.**

How funny the students would think the cartoon is may depend on whether they watched it alone or with others.

**Independent variable:** Watching cartoon alone or with others

**Dependent variable:** how funny they found the cartoon to be

**Data:**

Include a data table or graph that shows your data. It may look something like this:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Color | Mass (g) | Vol (ml) | Streak | Hardness | Luster | Cleavage/Fracture |
| Orange | 11.50 | 2.3 | White | 6 | Non-metal/dull | Fracture |
| Golden | 4.95 | 4.95 | Rust | 3.5 | Metal/gold | Cubic cleavage |
| Purple | 7.6 | 3.1 | None | 7 | Non-metal/glassy | Shell-fracture |

**Calculations [If Any]:**

To compute density, I took the mass divided by the volume for each mineral. For example, for mineral #1, I took 11.50g/2.3ml = 5.0g/ml. This is also a specific gravity (SG) of 5.0 (with no label). I did the same thing for my other minerals (mineral #2 and mineral #3)

**Discussion:**

* Identify WHAT you investigated and LIST the results.
* What test that you ran caused you difficulty?
* Where could you possibly have made errors that could give you poor results?

**Conclusion:**

Summarize your results in a paragraph.

Courtesy: www.aerosolproducts.org