

Requirements of a Lab Report

The Bottom Line
Lab Report Format
Spaghetti Lab
Grade Worksheet-
7-Classification of Matter

The Bottom Line

FACE IT, Nobody owes you a living,
What you achieve or fail to achieve in your
lifetime,
is directly related to what you do or fail to do.
No one chooses his parents or childhood,
but you can choose your own direction.
Everyone has problems and obstacles to
overcome,
but that, too, is relative to each individual.

NOTHING IS CARVED IN STONE,

you can change anything in your life,

if you want to badly enough,

Excuses are for losers;

Those who take responsibility for their actions

are the real winners in life.

Winners meet life's challenges head on,

knowing there are no guarantees,

and give it all they've got.

And never think it's too late or too early to begin.

Time plays no favorites

and will pass whether you act or not.

TAKE CONTROL OF YOUR LIFE.

Dare to dream and take risks...

Compete.

If you aren't willing to work for your
goals,

don't expect others to.

---Believe in Yourself---

Open House

- 5:30pm Doors open—Food vendors and orientation in the common's/cafeteria
- 6pm-6:10pm First Period (1A)
- 5 minute passing period
- 6:15pm-6:25pm Second Period (2A)
- 5 minute passing period
- 6:30pm-6:40pm Third Period (3A)
- 5 minute passing period
- 6:45pm-6:55pm Fourth Period (4A)
- 5 minute passing period
- 7pm-7:10pm Fifth Period (1B)
- 5 minute passing period
- 7:15pm-7:25pm Sixth Period (2B)
- 5 minute passing period
- 7:30pm-7:40pm Seventh Period (3B)
- 5 minute passing period
- 7:45pm-7:55pm Eighth Period (4B)
- 7:55pm -8:10pm Follow up time with any teacher that may have been missed
- 8:15pm-8:45pm Assembly by Administration in the Auditorium—College Credit in High School, New Core Standards, Senior Project, School Wide Expectations, etc.

Requirements of a Lab Report

- I. Title- Name of the lab, your name, name of the school, period, date, and instructor. This is the coversheet of your report.
- II. Introduction- Describe what concept the lab explores, the main objective of the lab, what actions you performed, and how those actions helped you achieve the lab objective. Also if appropriate, describe your hypothesis and how you arrived at it using the scientific concepts described.

Hypothesis tool:

Create your own question that you would like to test.

Question _____

Subject _____

What is changed _____ (x or independent variable)

What is measured _____ (y or dependent variable)

Expected results _____

If and then statement:

Requirements of a Lab Report

- III. Methods/Procedure- Document your experimental procedure in enough detail that someone else could repeat your work. This should include a list of all materials used, a diagram of the lab setup if appropriate, and the steps taken to accomplish the lab (paragraphs preferred, but organized, ordered lists of instructions are acceptable with list items in complete sentences.)

List all materials used.

Steps taken. Provide enough information that another student could easily replicate your work.

Requirements of a Lab Report

IV. Results/Data- Put your data into tables and graphs. Arrange the results section in an organized fashion.

Data Tables. Titled, organized and labeled with units.

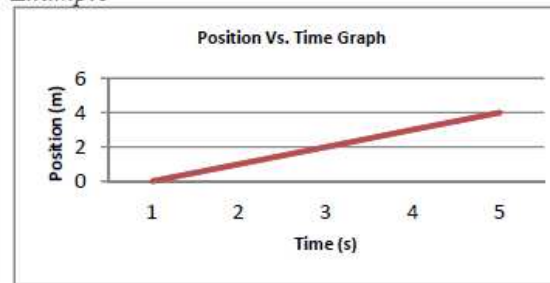
Example

Position and Time Table

Trial	Distance (Meters)	Time (Sec)	Speed (Meters/Sec)
1	1m	1sec	1m/s
2	1m	2sec	1m/s

Graphs. Titled and properly labeled with all areas, provided appropriate units.

Example



V. Discussion/Analysis-

Explain whether results support the hypothesis, with supporting details referenced from the results section. _____

Explain **why** results support or do not support the hypothesis. _____

Discuss any problems encountered, uncertainty in measurements, comparison to others performing the lab, and possible improvement opportunities. _____

Hints: If reports are not type-written, they can be hand-written but MUST be clearly legible. Neatness count. Use Times New Roman or Arial 12 pt font. Write in the 3rd person, avoid 1st and 2nd person references such as I, we, you, and you (understand). Diagrams and graphs MAY be neatly hand-written and glued in place.

Adapted from NC State University's LabWrite Program, © 2004 NC State University

Spaghetti Lab

- Conduct the lab in your assigned lab groups
- Use the Lab Report Worksheet as a guide
- EVERY member of the lab group must turn in THEIR OWN lab report
- Report is due next class

In this lab you will be determining the relationship between the mass and length of spaghetti noodles. You will do this by making a data table where you record the lengths and masses of small pieces of spaghetti. In order to make the best possible graph, use widely varying lengths of spaghetti. Record your data in a table on a sheet of graph paper.

When you have measured the masses and lengths of 12 pieces of spaghetti, use your data table to make a line graph. You will be graded on how closely your graph conforms to the rules discussed in class.

Good luck!