

Welcome to Honors Biology!

Biology is the study of life, and this course will help students develop an understanding of the basic principles of biology. Through experiments, discussion, practice, reading, writing, activity, and lecture, we will grow our understanding of our bodies and the natural world around us.

Students who think critically, read carefully, and welcome new ideas will enjoy the growth they experience throughout the course.

As an Honors Bio student, you have a year full of learning, fun, and (of course) hard work ahead of you. To prepare for the upcoming school year, there is a summer assignment detailed below. In addition to this assignment, I urge you to remember to have some fun and relax so that you are ready to start a new school year in the fall.

Sincerely,

Ms. Formby and Ms. Smith

Graphing Activities Instructions

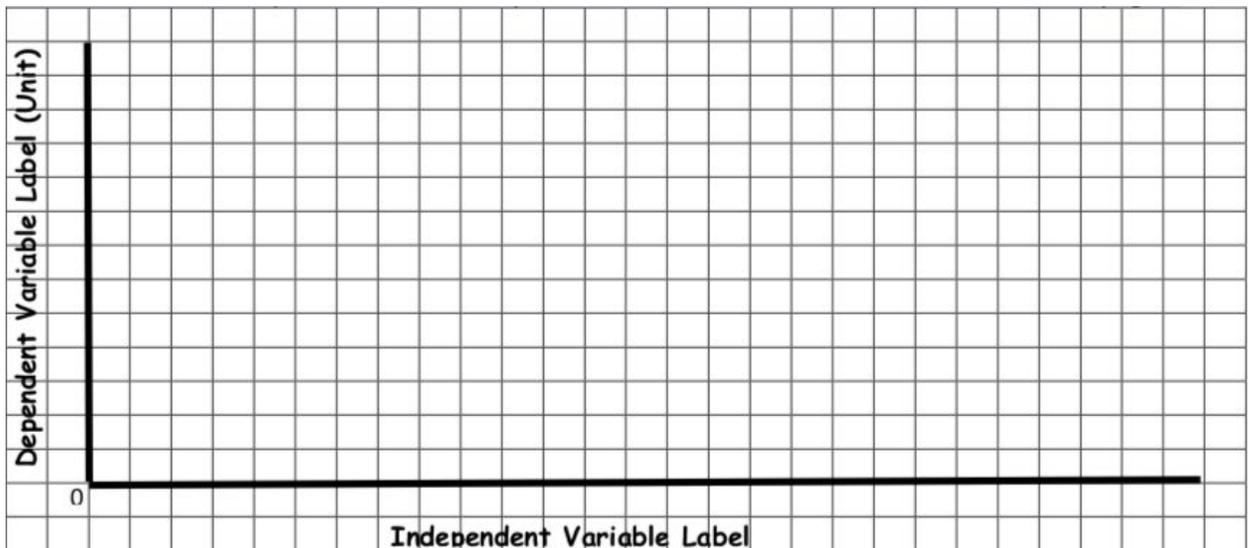
[Graphing primer](#)

1. Click the link above titled Graphing Primer to complete the Graphing Modules. Complete the final two graphs on graph paper in handwritten form.

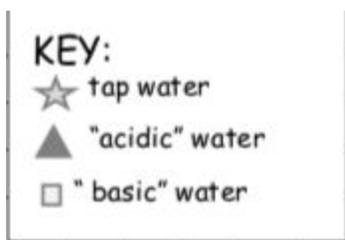
Instructions for graphing assignment #2: Virtual Graphing Bar Graph

1. Graphs should be done by hand on graph paper.
 - a) Do not “make” your own graph paper.
 - b) You can print graph paper from this website: <https://www.waterproofpaper.com/graph-paper/grid-paper.shtml> or purchase your own.
2. Draw an x and y axis on a piece of graph paper, making sure to place the independent variable on the X axis and the Dependent Variable on the Y axis as

shown below. Also, make the graph as large as possible so that the data will be easy to see and interpret. (This one is small so it will fit on this page!)



3. For this assignment you will be making a bar graph
 - a) For bar graphs, the x-axis will have 3 bars. In this case, they will be named Wool, Nylon, and Denim.
 - b) You will need to make each bar have a different texture or a different color to differentiate each bar. Be sure to make a graph key similar to the one below in the upper right-hand corner of your graph.

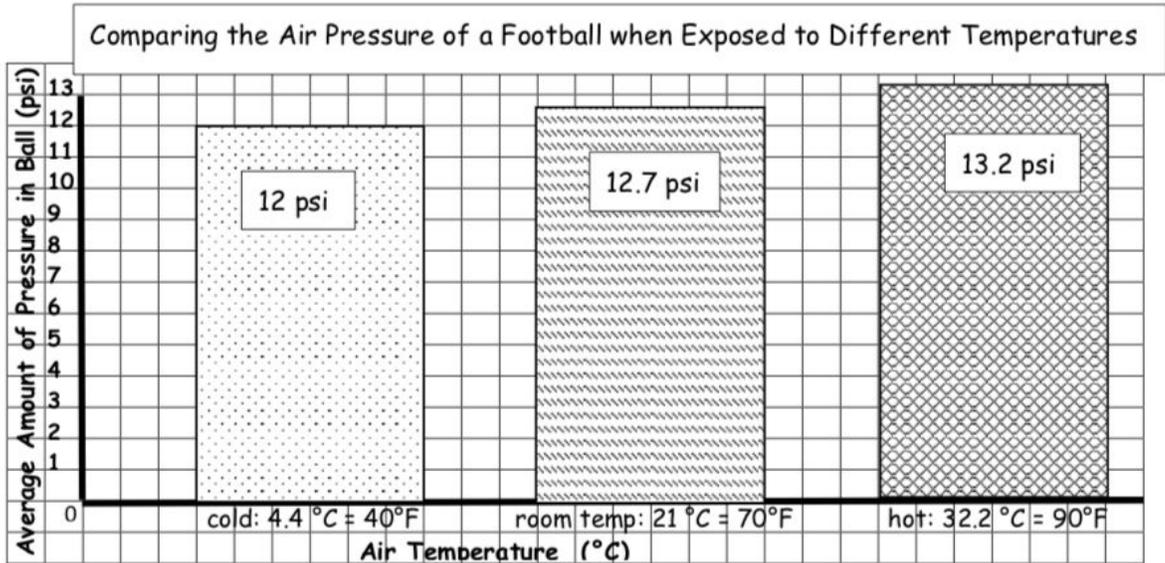


4. You will need to scale the y-axis. To do this:
 - a) Determine the maximum average to be graphed. (Suppose it is 8 "units".)
 - b) Count the number of lines available on the y-axis, in the above case it is 14
 - c) Divide the maximum average by the number of lines available $8 \div 14 = 0.57$

d) Always round the number up. So in this case, each line will count for 1 “unit”.

5. Finish the graph by adding a title.

Sample Bar Graph:



Instructions for Current Event Writing Assignment

1. Document should be completed and saved in One Drive or Google Drive so that your document can be retrieved from any computer.
2. Save document with the following name: lastname_firstname_currentevent.
3. Document may use Arial or Times New Roman size 12 font.
4. Document must be double spaced.
5. Article summary must be a minimum of 2 paragraphs and paragraphs must be a minimum of 5 sentences each.
6. Questions should be answered after the summary within the same document.

All assignments will be due on the first day of class to your assigned teacher!!

