

Homework Assignment 1 (15 pts): Due January 22.

You are to devise a hypothetical scientific experiment and turn it in at next week's lab. Please type the assignment. Use complete sentences, proper grammar, and correct spelling in the following format.

Observations (1 point)

Question (1 point)

Hypothesis (2 points)

Experimental Procedure (5 points): Explain how you would do the experiment including requirements for *controls*, *replicates*, *modifying only one variable*, and *quantitative measurements* of the variable.

Results (1) (1 point): Give hypothetical results that would support the hypothesis

Conclusions (1) (2 points): State your conclusion using results (1) above, including why you reached this conclusion

Results (2) (1 point): Give hypothetical results that would refute the hypothesis

Conclusions (2) (2 points): State your conclusion using results (2) above, including why you reached this conclusion

You may devise any type of experiment you wish; however, you cannot use any examples discussed in class. You can use a biological example or something related to your area of study; for example, an art major might suggest that changing a specific part of a painting might negatively affect sales of the painting.