

Final Project Presentation

For your final project presentation, you are to enlighten the class about the experiment you performed and your results. Below are the guidelines that you should follow, and you will be evaluated on the quality of everything listed. You must e-mail me your PowerPoint presentation BEFORE class begins so all presentations will be ready. This is also the format you should follow for your paper.

Background: this section should address how you came up with your idea and what other people have done in relation to your experiment. Additionally, be sure to include background information necessary to understand your experiment and all hypotheses. You should incorporate citations, and place your bibliography on the last slide/page. You must include some non-internet sources (peer-reviewed journals, magazines, etc).

Experimental Design: during this part you need to make sure you include enough detail that anyone could reproduce your experiment. Again, remember the LEGO activity!

Results: for your results section you must include ALL data and statistics, including tables and graphs when necessary. You must also include either pictures of your experiment, or bring in the actual experiment (i.e. if you grew plants you can bring them in, but if you grew mold I'll settle for pictures!).

Key Findings: thoroughly discuss your results and their significance.

Limitations: this is where you want to address anything that went wrong. How would you fix it? If you could do your experiment again what would you do differently? Experiments often don't go well the first time, so be honest about any problems encountered.

In addition to the above, you will also be assessed on the quality of your slides, delivery of your presentation, complexity and originality of your experiment, and ability to answer questions, including a peer review. Your presentation should be about 15 minutes. For your paper, you should follow the guidelines from the previous lab reports, including labeling sections, checking grammar, and citing properly. Appendix A will again have the first page of each reference used, and Appendix B will contain all calculations.

Grading Rubric for Final Presentation

10	8	6	4	2/0	Points
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Introduction contains excellent explanation of the experiment and background information. Hypotheses are included.	Introduction contains an explanation of the experiment and background information. Hypotheses are included.	Introduction contains explanation of the experiment but limited background info. Hypotheses are included.	Introduction contains limited background information or experimental detail.	Introduction contains little background information and/or no hypothesis.	
Detailed procedure of experimental design could accurately be reproduced by others.	Procedure could be reproduced by others with few mistakes.	Procedure describes the experiment, but with only enough detail to describe the overall process.	Procedure describes process only well enough to understand what the experiment is. No detail.	Procedure is not even detailed enough to determine what the experimenter did.	
Results/data includes all results from experiment. Data is presented appropriately.		Data presented incorrectly, but complete.		No Results/data	
Visual design is outstanding: creative and attractive. Ample images and illustrations of data; pictures of actual experiment.	Visual design pleasing. Good use of images and illustrations.	Visual design good – some overcrowded or over-busy slides.	Visual design overly plain or overly busy and distracting.	Visual design poor – distracts from content.	
Presentation is clearly spoken - not read from screen. Correct posture, mannerisms, and eye contact throughout.	Clear speech – occasional reading of slides. Correct posture and general attention – good eye contact.	Many slides read from screen. Voice soft. Occasional eye contact – appropriate mannerisms.	Many slides read. Voice too soft to understand words. Little eye-contact, gum-chewing or slouching.	Presenter stumbles over words – unfamiliar with text. No eye-contact - inappropriate mannerism. Presentation confusing and disorganized	
Student includes references and citations to the material used. All references are in correct format	Student includes references to the material used. All references are in correct format.	Student includes references to all the material used. Some references incorrectly formatted.	Student includes references to all the material used. All references incorrectly formatted.	No References.	
Key Findings give excellent analysis of results and their significance.	Key findings contain weak explanation of results and their significance.		Key findings discuss some results.	Key Findings missing	
Discussion of errors and flaws are included. Also how the experimental design could be improved.		Missing either discussion of errors or how the experimental design could be improved.			
Experiment is creative, complex, and original.		Experiment is complex, but not original.	Experiment lacks creativity or complexity.		
Peer review					

******Students who do not attend all three class presentation days will have their class participation grade significantly lowered.***