

Semester Project Summary

You can choose any of the following project types to go along with your chosen project topic. Or you can make up your own project! You should choose a project that matches your skills and that you can do well. You will submit your outline detailing what your project type will be and how you plan on executing it on **Sunday, September 27th at 11:59pm.**

If you choose a project other than a Powerpoint, your presentation should last 5 minutes. If you choose a Powerpoint project, your presentation should last 10 minutes. Recordings of your project presentations are due **Sunday, November 15th at 11:59pm.**

Children's Book: Writing a children's book does not mean that you can make things up or include less information. You will need a thorough understanding of the material (and some creativity) to accomplish this. You must convey accurate scientific information in a clear, engaging, fun way that a child would enjoy and understand. Do not just list the facts about your topic, try to tell a story that includes that information instead. You should construct the book so that it is easy to open and easy to read (consider your colors carefully). You will be graded upon the quality of your book and your ability to convey accurate information. Your citation of the sources should be included.

Powerpoint Presentation: Your presentation should last 10 minutes, and so you will need however many slides is necessary to accomplish that. You should cite your sources at the end of the presentation and email me a copy.

Poster or Craft Project: If you choose a more hands-on/creative topic like a poster, craft project, etc., you should still write a 1 page (minimum) "paper" describing your creation that includes any relevant scientific information. Basically, include everything you would want to say about it if you presented it in person. You should also cite your sources. If you choose a poster, make sure it is a *larger cardboard poster*, not the kind that can be easily rolled up or the miniature trifold kind.

Sundial Project: There are several types of sundials that you can choose to make. Be sure to use materials that will not fall apart easily. You should keep a log of your attempts to use the sundial, at least 10 entries spanning over 2 weeks. Similar to the craft project description above, you must include at least 1 page describing your project, any relevant scientific information (like how and why these work), and some information on the history of sundials. Citations must be included.

When citing sources, Wikipedia does not count. It can be a good place to start in order to get big picture concepts and to get you thinking, but you should seek out more reliable sources: published works (textbooks, scholarly papers, even science journalism for a

general audience -- e.g., Scientific American, Popular Science, etc.). Public outreach websites from academic institutions and places like NASA are ok, too, but they shouldn't be your only sources. Remember that this is a research project and the quality of your work should reflect that.