SCIENCE FAIR ASSIGNMENTS

Semester 1 Week 11

☐ Read the Science Fair section of the Research appendix (pg 122 – 131) to help you select one research question.

☐ What is the problem you will investigate: Write in your lab journal

☐ Using the sample Research plan in the appendix (pg 128-129), add your research problem to your lab journal. It should be a brief description (1-2 paragraphs) of the problem you will research.

Semester 1 Week 12

☐ Finalize your research question.

☐ Get to know your topic by doing some background research.

☐ Cite all sources in a bibliography.

This section should be a minimum of 3-5 paragraphs

☐ Develop a hypothesis based on the background research

☐ Add the research question, background research, and hypothesis to the sample Research Plan and your lab journal.
(Don’t forget to cite sources on the Research Plan.)

☐ Type and bring your Research plan for review

Semester 1 Week 13

☐ In your lab journal, brainstorm and write a step by step procedure for the experiment. Be as detailed as possible so that someone else could duplicate your experiment exactly. If there are various stages, separate the sections by subtitles. Detail all procedures and experimental design, including methods for data collection.

☐ Add the procedure to your Research plan and lab journal. Type and bring to seminar. Come prepared to explain your project.
**Semester 1 Week 14**

☐ Finish any incomplete assignments. Finalize Research plan.

☐ Add the materials list to your Research plan and your lab journal.

☐ Start gathering materials needed for experiment

☐ Bring your typed Research Plan to seminar. Come to seminar prepared to discuss your project status.

**Semester 1 Week 15**

☐ Add Risk and Safety, Data Analysis Method, and Bibliography to your Research Plan and your lab journal.

☐ Bring typed Research plan to seminar for review

☐ Prepare to discuss project status in seminar

☐ Gather materials needed for experiment. Prepare to present your research plan if you haven’t already

Use the holiday break to prepare. Your science fair project is due Week 1 of 2nd semester. You will also bring the elements of your display board (but do not attach yet) to present that week

**Over Break**

☐ Complete entirety of research experiment over break

☐ Complete data analysis and conclusion after experimentation

☐ Add these elements to your Research Plan and your lab journal. Bring finalized typed Research plan to seminar

☐ Come to seminar prepared to discuss your project status. Bring the elements of your display board, but do not attach them yet, to practice presenting