

Scientist: \_\_\_\_\_  
Per: \_\_\_\_\_ Date: \_\_\_\_\_

## 8<sup>th</sup> Grade Science project

To help you stay on track with the science project, I have created the following timeline of due dates. You will notice that the project has been separated into different components to make the completion of each task easier. **You must keep this sheet of paper for it is worth 30 points as explained below.**

<b>Description</b>	<b>Due Date</b>	<b>Parent Signature</b>
Submit Project Proposal Sheet.	<b>Jan 23, 2009 Friday</b>	Due 1/23
Draft 1: <b>Research outline</b> (to be turned into an essay), <b>Purpose, Hypothesis, Methods</b> (see descriptions on backside)	<b>Jan 30, 2009 Friday</b>	Due 1/30
Draft 2: Draft 1 <b>and Data Table</b> (Take pictures of experiment during data collection)	<b>Feb 20, 2009 Friday</b>	Due 2/20
Draft 3: Draft 2 <b>and Data, Analysis, Observations and Conclusion Sections</b>	<b>Feb 27, 2009 Friday</b>	Due 2/27
<u>Final Lab report:</u> Draft 3 <b>and Discussion, Application, Future Research and Abstract Sections</b>	<b>Mar 6, 2009 Friday</b>	Due 3/6
<b>Revised Lab report AND Poster board</b> <b>**** SBJHS Science Fair ****</b>	<b>Mar 13, 2009</b>	Due 3/13

\* Turn in indicated lab report sections on due dates to get checked by Ms Garza. Consider these as rough drafts that can be improved by the time the final draft is due.

\* All sections need to be **typed** by their due dates.

\* Each parent signature is worth **5 points**. This paper will be checked on each due date.

\* **Lab Report – 100 points:** Should be typed and have a report cover.

\* **Presentation Board – 50 points**

Score is based on neatness (completely typed), completeness, logical progression and creativity. More information will be given closer to the due date.

# Lab Report

Section (In order)	Description	Special Notes
<b>Title Page</b>	Front of lab report: Title, Name, Period, Teacher and Date	Adding a picture enhances title page.
<b>Abstract</b>	A summary of the entire lab report. 150 words or less.	An abstract is written on a separate page immediately following the title page.
<b>Background Research</b>	This section describes the relevant scientific concepts upon which the experiment is based. It may also contain results from previous related experiments. Must be researched and have at least <b>3 sources</b> .	Start new page with Background Research. Include captioned pictures or diagrams to help explain concepts.
<b>Purpose</b>	State purpose of experiment	Place this section immediately following Research section.
<b>Hypothesis</b>	State hypothesis.	"If, then" statement.
<b>Methods</b>	Contains two subsections: <b>Materials:</b> List materials used in experiment <b>Procedure:</b> Numbered steps that describe how to conduct the experiment.	Remember to only list the materials. Should not be in essay form. Procedure steps should start with an action verb.
<b>Data</b>	Present data in an organized table(s). Table should be titled and units included with all data.	Use word processing to create neat data tables. Will need larger versions of Data tables for your presentation board.
<b>Analysis</b>	Graphs of data – use correct type of graph for your data. Remember SULTAN!!!	Use Excel to create graphs, print in color whenever possible. Will need larger versions of graphs for your presentation board.
<b>Observations</b>	Short section of observations taken while conducting experiment. Anomalies, special circumstances, weather effects, etc. all are noted here.	
<b>Discussion</b>	Support your interpretation of data by citing your research. Organize your thoughts and reflections of the results in a logical flow. This section shows how well you understand your experiment. It should be at least 3 paragraphs long.	Use research and gathered data to support your conclusions!!
<b>Conclusion</b>	Simple statement summarizing data and stating results. 1-2 sentences.	
<b>Application</b>	Describe real world applications of your experiment and results.	At least one paragraph.
<b>Future Research</b>	Describe how you would continue your experiment. What other variables could you try, what conditions could you control better or how can you broaden the scope of your research?	At least one paragraph.
<b>Acknowledgement</b>	Not required, however it is polite to acknowledge help of someone's equipment, lab space or time.	
<b>Works cited</b>	These are the works that you referenced in your research section. Proper format should be used and is found in your agenda.	