

Science Based Research Project

Name: _____



Green
Cove
Springs
Junior
High

Science Teacher: _____

Math Teacher: _____

Social Studies Teacher: _____

Language Arts Teacher: _____

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Teacher Communication Page

<u>Date:</u>	<u>Teacher:</u>	<u>Message:</u>

Parent Letter

Dear Parents,

During the next few months your child is required to complete a science project which uses the scientific method to solve a real world problem. Science projects are primarily independent study assignments involving experimentation on a topic of individual interest. The educational benefits to the student who completes a project are numerous including developing skills in writing, oral presentation, creative thinking, and problem solving.

In addition to this book; each student will be given instructions during class for the various steps of his/her project. Most assignments for this project will be completed with the student's Science teachers, but others will be completed in Math, Language Arts, and Social Studies. This allows for collaboration between the subject areas and will give the students a comprehensive learning approach to research, writing, investigation, and analysis. The work will be completed at school as well as at home, and students will receive a timeline noting due dates for each part of the project. Be sure to visit the science fair help site at www.gcsjsciencefair.weebly.com for specific tips, links, handouts, etc.

Your child may need you to monitor his/her progress and provide encouragement. Your support is key to a successful project, but please do not allow your involvement to extend any further in order to assure equity and promote student learning! Also, be aware that a prize-winning project can be completed for under \$10.00.

If you have any questions, do not hesitate to contact us.

Sincerely,

GCSJH Teachers

Please sign the space below in acknowledgment of the above information:

Parent signature: _____ Date: _____

Student signature: _____ Date: _____

Student academic integrity pledge:

I, _____ understand that it is my responsibility to complete a Science Fair project and research paper in the time frame provided by my teachers. I understand that this project is to be completed independently and should express my own original thoughts and ideas. If an idea is used for this project or research paper that is not my own, I will cite the source of that information to avoid plagiarism and give credit where it belongs.

Student signature: _____ Date: _____

Individual teachers will give students exact due dates for each section of the phase they are responsible for. The student must fill in and abide by those dates.

Timeline with Due Dates

Phase 1: Project Selection-To be completed with science teacher by 9/4/15.

Project selection with applicationDue: _____
Predictive hypothesis, independent, dependent, and control variable..... Due: _____
Research planning.....Due: _____

Phase 2: Research-To be completed with Social Studies teacher by 10/12/15

Research notes 1 Due: _____
Research notes 2 Due: _____
Research notes 3 Due: _____
Research notes 4 Due: _____
Research notes 5 Due: _____

Phase 3: Research Paper-To be completed with Language Arts teacher by 12/07/15

Research paper outline..... Due: _____
Research paper rough draft Due: _____
Research paper final draft (2 copies- 1 for LA & 1 for Sci)..... Due: _____

Phase 4: Experimental Design- To be completed with Science teacher by 11/16/15 (can be worked on during phase 3)

Final Hypothesis Due: 10/16/15
Materials and procedures Due: 10/23/15

Phase 5: Experimentation -To be completed with Math and Science teachers by 12/11/15

Journal/ logbook.....Due: _____
Data TableDue: _____
Graphing your results Due: _____

Phase 6: Experiment Conclusion-To be completed at home by 12/14/15

Conclusion Due: 12/14/15
Abstract..... Due: 12/14/15
Display board (Advanced only) Due: 12/14/15
Notebook (Advanced only)..... Due: 12/14/15

Phase 7: Presentations-To be completed in class by 12/18/15

Project Selection – Phase 1

List 3 different projects that you would be interested in using for your science fair project. Remember to choose projects that you find interesting and that your parents also agree with.

- **Briefly describe each project** so that your teacher can understand what it entails.
- You must also include **3** ways this project can impact and affect society, consumers, students, science, etc. If this project does not have **applications** rethink it or find another one.
- **Rate each of the 3 projects** on a scale of 1-3, one being the project you like the most and 3 being the project you like the least.

1. Project Title: _____ Rank: _____

Description: _____

a. _____

b. _____

c. _____

2. Project Title: _____ Rank: _____

Description: _____

a. _____

b. _____

c. _____

3. Project Title: _____ Rank: _____

Description: _____

a. _____

b. _____

c. _____

Experiment Design Part 1- Phase 1

Problem Question/Thesis: (Be specific)

Independent Variable (What am I changing in the experiment?) :

How will it be measured? _____

Dependent Variable (What **data** are you measuring/collecting in the experiment?) :

How will it be measured? _____

Predicted Hypothesis: If this is done (look at your independent variable), **then** this will happen (look at your dependent variable) **because** (why do you think this will happen).

Write your hypothesis in If..., then... because... format.

- No 1st person

Controlled Variables (What are you controlling/ keeping the same in the experiment?) :

Final Hypothesis: To be done AFTER research is completed (Use above format. The because portion could be changed based on the research)

Advanced students: you must get forms **1, 1A , 1B and a research plan** completed. Find these ISEF forms through the link on the science fair website or <https://student.societyforscience.org/forms>

Research Planning- Phase 2

Use the space below to determine what key words/phrases/ideas you might want to research so you can write each section of your paper. Use the guiding questions within each block to help you.

Problem Question/Thesis (page 6)	
Science- What are the scientific principles/laws you should know about? What are some key vocabulary words that scientists would use for this project?	
History- Background information such as time of invention, inventor, designer of the principle, how has it been used throughout history, what changes have been made	
Application- This is the reason this project is important to society. How can the information you find out help other people? How can it lead scientists to new experiments to help the world?	

Research - Phase 2

Research Note #1

Website/Book Title & Page Number _____ Author: _____

What important facts can I learn from this document?	How can I use this information in my essay?
1.1	Sci Hist App
1.2	Sci Hist App
1.3	Sci Hist App
1.4	Sci Hist App

Research note supports (circle all that apply for each note):

Sci- Science

Hist- History

App- Application

Research - Phase 2

Research Note #2

Website/Book Title & Page Number: _____ Author: _____

What important facts can I learn from this document?	How can I use this information in my essay?
2.1	Sci Hist App
2.2	Sci Hist App
2.3	Sci Hist App
2.4	Sci Hist App

Research note supports (circle all that apply for each note):

Sci-Science

Hist-History

App- Application

Research - Phase 2

Research Note #3

Website/ Book Title & Page Number: _____ Author: _____

What important facts can I learn from this document?	How can I use this information in my essay?
3.1	Sci Hist App
3.2	Sci Hist App
3.3	Sci Hist App
3.4	Sci Hist App

Research note supports (circle all that apply for each note):

Sci-Science

Hist- History

App- Application

Research - Phase 2

Research Note #4

Website/Book Title & Page Number: _____ Author: _____

What important facts can I learn from this document?	How can I use this information in my essay?
4.1	Sci Hist App
4.2	Sci Hist App
4.3	Sci Hist App
4.4	Sci Hist App

Research note supports (circle all that apply for each note): Sci- Science Hist-History App- Application

Research - Phase 2

Research Note #5

Website/ Book Title & Page Number: _____ Author: _____

What important facts can I learn from this document?	How can I use this information in my essay?
5.1	Sci Hist App
5.2	Sci Hist App
5.3	Sci Hist App
5.4	Sci Hist App

Research note supports (circle all that apply for each note):

Sci-Science

Hist-History

App- Application

Research Paper Works Cited- Phase 2

Please fill out as much of the following information as possible for each resource

1	These notes are from (Circle One): A Book A Magazine A Website A Newspaper Title: _____ Magazine or website name): _____ Author(s) full name: _____ Copyright date OR the date you visited the website: _____ Publisher of book OR sponsor of web site: _____ Place of publication OR full website address: _____
2	These notes are from (Circle One): A Book A Magazine A Website A Newspaper Title: _____ Magazine or website name): _____ Author(s) full name: _____ Copyright date OR the date you visited the website: _____ Publisher of book OR sponsor of web site: _____ Place of publication OR full website address: _____
3	These notes are from (Circle One): A Book A Magazine A Website A Newspaper Title: _____ Magazine or website name): _____ Author(s) full name: _____ Copyright date OR the date you visited the website: _____ Publisher of book OR sponsor of web site: _____ Place of publication OR full website address: _____
4	These notes are from (Circle One): A Book A Magazine A Website A Newspaper Title: _____ Magazine or website name): _____ Author(s) full name: _____ Copyright date OR the date you visited the website: _____ Publisher of book OR sponsor of web site: _____ Place of publication OR full website address: _____
5	These notes are from (Circle One): A Book A Magazine A Website A Newspaper Title: _____ Magazine or website name): _____ Author(s) full name: _____ Copyright date OR the date you visited the website: _____ Publisher of book OR sponsor of web site: _____ Place of publication OR full website address: _____

Research Rubric- Phase 2

Items Required	0 Points	1 Point	2 Points	3 Points	4 Points	5 Points
Sources Completed	None	1 out of 5	2 out of 5	3 out of 5	4 out of 5	5 out of 5
Information for category covered (Science, History, Application)	None	Not Applicable	Not Applicable	1 of 3	2 of 3	3 of 3
Source Information (copyright, author, title, etc.)	None	1 of 5 complete	2 of 5 complete	3 of 5 complete	4 of 5 complete	5 of 5 complete
Information is:	No information	Not complete, poor quality, few usable	Poor to fair quality, some usable	Over half complete, most are reliable, over half usable	Most complete, most usable	All complete, reliable, all usable

Score Received (max 20 pts) : _____

1. What new information have you learned doing your research that will help you create a better hypothesis? _____

2. What part of your research would have the greatest impact on society if everyone were to read your research paper? (For example: what would make them want to change their lifestyle if they knew about this from your project?)

Research Paper Outline- Phase 3

Use at least 5 of your research notes to complete the following outline for your research paper.

Introduction:

- Hook – Interest the reader in your problem: _____

- Transitional statement to problem/thesis: _____

- State the **problem question/thesis** (find this on page 6): _____

Section 1- Circle the theme of this section: History Science Application

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

Section 2- Circle the theme of this section: History Science Application

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

Research Paper Outline- Phase 3

Section 3- Circle the theme of this section: History Science Application

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

- Support from research note ____: _____

Conclusion:

- Restate the main idea of each section of the paper **and** explain how those ideas lead to the hypothesis:
 - a. Section 1: _____

 - b. Section 2: _____

 - c. Section 3: _____

- State your **final hypothesis** (found on page 6): _____

Work Cited

- Enter the citation information from page # 13 into Easybib.com.
- Copy and paste it into the end of your final paper.

Congratulations, you just did your outline for your research paper.

Research Paper Guidelines- Phase 3

Introduction:

- This should be a paragraph that introduces the reader to your topic.
- An interesting fact can be used to start this introduction, such as, “Did you know...”
- Be sure not to state too much information in the introduction. Leave your facts for your body paragraphs.
- The introduction can be vague as long as you develop your ideas in the body paragraphs.
- It must include your problem question /thesis statement (page 6).

Body: You must have AT LEAST 3 body paragraphs.

- Introduce the main point or idea of your body paragraph.
- Support that main idea with evidence or facts that you have found in your research.
- Everything that you did not already know from personal experience before writing this paper should be cited with the in-text and parenthetical citations from your research.
- **Use transitions to tie each of your facts/evidence together. DO NOT JUST STATE FACT AFTER FACT!!!**
- Each paragraph should end with a summarization or conclusion sentence to end the paragraph.

Conclusion:

- Your conclusion paragraph should briefly (as in one sentence each) summarize the main point of your paper and each of your body paragraphs.
- End with a statement that will make your reader either continue to think about your topic or make them feel accomplished.
 - Example: With this new information, maybe you will be able to make a healthier choice next time you are selecting a shoe style.

Works Cited:

- It is expected that you use EasyBib to generate your works cited page (<http://www.easybib.com/>).
- There is a step by step guide to using EasyBib on the Green Cove Springs Junior High Science Fair website if you need help!
- List your citations in alphabetical order.
- You must have at least 5 citations.

All final papers will be typed:

- ✓ It is expected that all students visit the Green Cove Springs Junior High Science Fair website for the final research paper formatting template.
- ✓ The length of the paper should include:
 - 1 title page
 - 2 pages for research paper (minimum).
 - 1 works cited page
- ✓ **NEVER** use the words **I** or **me** in your paper.
- ✓ **Only** use the metric system when writing about anything that includes measurements.

Research Paper Rubric- Phase 3

Research Title/Topic _____

RESEARCH REPORT RUBRIC

CRITERIA LEVELS	Max Pts.	Points Earned	COMMENTS
In-Text Citations/ Parenthetical Documentation -The report includes the correct, appropriate, and consistent use of parenthetical citations in MLA Format (typed in the text of the report). -Citations are properly formed. -There can be no websites or URL addresses used as parenthetical citations.	20		
Works Cited Page (aka. Bibliography) – The entries are alphabetized. -The Works Cited page is based on MLA format, giving credit to authors of the sources used in the composition of the report. Entries are not numbered.	15		
Problem Question/ Thesis (A statement after the hook, at the end of the first paragraph, that details what the report will remain focused upon throughout) -The report has a thesis statement supported throughout (Problem Question)	10		
Plan -The body consists of 3 main sections: (1) History (2) Science (3) Application -Introduction and conclusion are fully planned -Minimum of 5 notes over 3 sections; at least 1 citation per section	15		
Research Report Content: Facts/Details/Examples/Organization -The report demonstrates excellent use of facts, examples, and details, giving depth to the paper. -The report is focused upon the thesis, and continually adheres to the planning outline from start to finish. -The report includes a clear introduction, body and conclusion -Each paragraph must have a topic sentence, body, and a conclusion. -The report includes mature vocabulary, transitional words, devices, and phrases to show relationships among ideas, and maintains coherence within, and between paragraphs. -All typing is double-spaced in 12 font (Times Roman). -Research reports are not to be written from the first person.	25		
Grammar/ Usage/ Sentence Structure/Mechanics/Conventions -There are few errors in grammar, usage, and sentence structure. -There are few spelling, capitalization, or punctuation errors.	10		
Planning Outline (Prepared according to teacher’s instructions) -Information in the outline should be in the same order as the facts, details, and examples, presented in the research report. -The number of Roman numerals in the outline determines the number of paragraphs that the report will consist of.	5		
Regular Classes Only- Completion Grade (Received if paper is turned in on or before deadline)	100		
SUBTOTAL POINTS	200		
Final Grade=Total number of points earned rhy/ Revised 5-2010	Final Grade _____		

Experimental Design Part 2 – Phase 4

Materials (list all materials used in the experiment, make sure you list quantities/amounts):

-
-
-
-
-
-
-
-
-
-

Procedures (list all procedures on your experiment in order, be specific! You may add more steps if needed):

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

ADV students: Must create a research plan for their notebooks. Find the research plan format at <https://member.societyforscience.org/document.doc?id=14>

Journal – Phase 5

To be completed the day(s) you work on your experiment. Make sure you describe what happens, what is going well and what is going wrong and any other observation you make. If you make any changes/adjustments, you need to describe those as well. You should describe **everything** that you do for the experiment from start to finish in this journal.

Date & Time	Details of what happened

Data Table- Phase 5

Fill in the data table that will allow you to accurately record the observations you make during your experiment. If the data table does not work for your experiment, use the back side of this page to create/glue in your own.

Your data table should represent the variables and hypothesis you determined on page 6.

Title: _____

<u>Explanation/group</u>	<u>Trial 1</u>	<u>Trial 2</u>	<u>Trial 3</u>	<u>Average/ Mean</u>
Control Group (if you have one)				
Test Group 1				
Test Group 2				
Test Group 3				

Graphing your Results- Phase 5

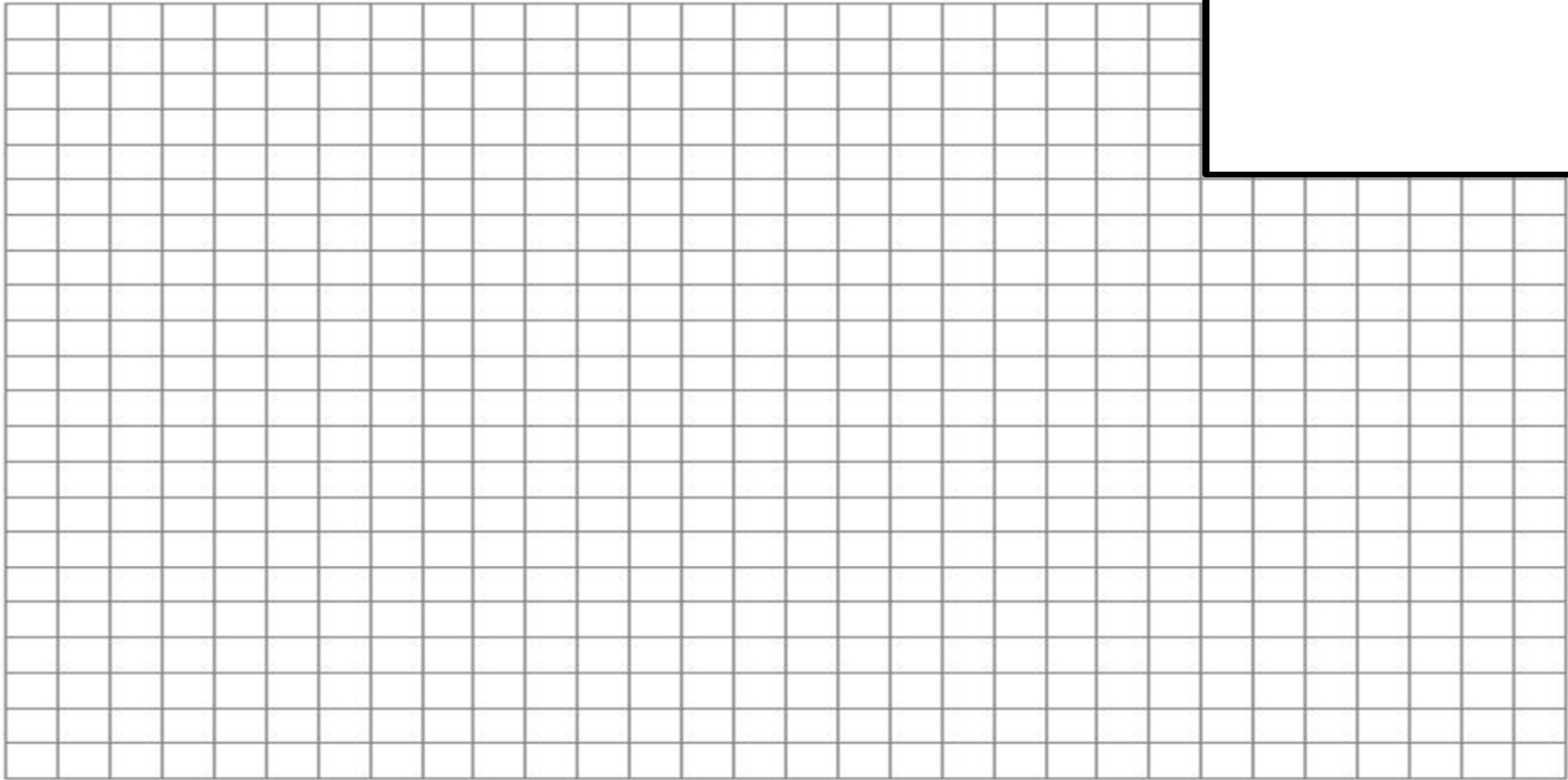
Bar Graph: My data compares and contrasts two or more items.

Line Graph: My data shows changes over time/distance/mass/etc.

Pie Graph: My data shows percentages of a whole.

Descriptive title of graph: _____

Y-axis label: _____



Key if needed:

X-axis label: _____

Graphing your Results- Phase 5

Science Fair Graph Rubric

This is for your completed graph in your science fair project. Each section has its own max points that can be earned for a total of 100 points.

1. Correct Display – 30 points The student chose the correct graph based on the purpose and results of the data.	<input type="text"/>
2. Number Intervals Spaced Appropriately – 20 points The numbers are spaced correctly and there are no weird gaps or skips in the numbering.	<input type="text"/>
3. Labeled Correctly – 15 points All the parts of the graph are labeled correctly and it has an appropriate title.	<input type="text"/>
4. Key – 15 points The key is displayed, easy to read and understand, and all parts are explained.	<input type="text"/>
5. Neat and Easy to Read – 10 points The entire graph is neat, easy to read and understand.	<input type="text"/>
6. Appealing/Attention Grabbing – 10 points The graph is interesting, attractive, and attention grabbing.	<input type="text"/>
<hr/> Total Points	<input type="text"/>

Conclusion- Phase 6

Your conclusion should summarize how your results support and/or contradict your final hypothesis (page 6).

1. Summarize your results in 1-2 sentences.

2. State whether your results support or contradict your hypothesis.

3. Summarize your experimental procedure making comments about its success and effectiveness.

4. Suggest changes in the experimental procedure (or design) and/ or possibilities for further study (Examples: use different materials, switch steps around, allow more time, control more variables, etc.).

Advanced students: You will combine these four points into one conclusion paragraph. This should be no longer than ONE paragraph and will be on your board and in your notebook.

Abstract- Phase 6

This is a paragraph (**7-10 sentences long**) that will grab the judges and public's attention. **This is NOT a full report about EVERYTHING that happened in your project, just a summary of the whole thing. Your abstract should include 1-2 sentences summarizing each of the topics listed below.**

1. Introduction: Motivate the reader to be interested in your project. Explain why you did this project (what was its purpose) and what importance does your project have to them or society (application: page 5).

2. Hypothesis: State your final hypothesis (page 6: IF..., THEN... BECAUSE...).

3. Procedures: How did you do this experiment? Do not go into full detail; just explain what is important for the reader to know in order to understand what you did and how you did it.

4. Results: What did you find out? Be specific with your results, use real data and numbers and do not use vague terms like most, some, a few, and a lot.

5. Conclusions: Was your project successful? Did everything go according to plan? What would you have changed or would you do everything the same?

Advanced students: Combine these 5 points into 1 paragraph. You will need this abstract printed out on your board and in your notebook.

Notebook/Packet Rubric- Phase 7

Science Fair Notebook: Separate Folder must only be completed if you are an advanced science student.

<u>Advanced Notebook Contents</u>	<u>Earned Points</u>	<u>Regular Packet</u>
Title Page	/ 5	Parent Letter Signed
Abstract	/ 5	Abstract
Table of Contents	/ 5	Research Plan (page 7)
Divider 1: “Experimental Design”		
Problem, Variables, Hypothesis	/ 10	Problem, Variables, Hypothesis (pg 6)
Materials and Equipment	/ 10	Materials and Equipment
Design and Procedures	/ 10	Design and Procedures
Divider 2: “Results”		
Observations and Data/Pictures	/ 10	Observations/Data/Picture
Results and Graphs	/ 10	Results and Graphs
Conclusion Statement	/ 10	Conclusion Statement
Divider 3: “Background”		
Research Paper (clean copy) with attached Works Cited	/ 10	Research Paper
Divider 4: “Appendix”		
Project Approval Form	/ 5	Project Approval Form
MSDS Sheets - only if needed		MSDS Sheets - only if needed
Informed consent forms - only if needed		Informed consent forms - only if needed
Forms 1, 1A, 1B, and research plan		All completed and signed forms
Separate but with Notebook: Science Fair Book with completed Journal	/ 10	Journal
Final Grade →	/100	← Final Grade

Teacher Comments:

Presentation Rubrics- Phase 7

Display board grading rubric: This is for advanced students only. Board will be graded on both content and neatness of display.

	<u>Title of your project</u>													
<u>Problem</u> _____ / 5 pts	_____ / 5 pts	<u>Results</u> _____ / 10 pts												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Procedures</u> 1.. 2.. 3... _____ / 5 pts</td> <td style="width: 50%;"><u>Materials</u> 1.. 2.. 3... _____ / 5 pts</td> </tr> </table>	<u>Procedures</u> 1.. 2.. 3... _____ / 5 pts	<u>Materials</u> 1.. 2.. 3... _____ / 5 pts											
<u>Procedures</u> 1.. 2.. 3... _____ / 5 pts	<u>Materials</u> 1.. 2.. 3... _____ / 5 pts													
<u>Hypothesis</u> _____ / 10 pts	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Variables</u> (Independent and dependent) _____ / 5 pts</td> <td style="width: 50%;"><u>Controlled Variables</u> _____ / 5 pts</td> </tr> </table>	<u>Variables</u> (Independent and dependent) _____ / 5 pts	<u>Controlled Variables</u> _____ / 5 pts	<u>Conclusion</u> _____ / 10 pts										
<u>Variables</u> (Independent and dependent) _____ / 5 pts	<u>Controlled Variables</u> _____ / 5 pts													
<u>Abstract</u> _____ / 20 pts	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Pictures</u></td> <td style="width: 50%;"><u>Data</u></td> </tr> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"><u>Graph(s)</u></td> </tr> <tr> <td style="width: 50%; text-align: center;">Color Picture: _____</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%; text-align: center;">Color Graph: _____</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%; text-align: center;">Computer Gen. _____</td> <td style="width: 50%;"></td> </tr> <tr> <td style="width: 50%; text-align: center;">_____ / 5pts</td> <td style="width: 50%; text-align: center;">_____ / 5 pts</td> </tr> </table>	<u>Pictures</u>	<u>Data</u>		<u>Graph(s)</u>	Color Picture: _____		Color Graph: _____		Computer Gen. _____		_____ / 5pts	_____ / 5 pts	<u>Application</u> _____ / 10 pts
<u>Pictures</u>	<u>Data</u>													
	<u>Graph(s)</u>													
Color Picture: _____														
Color Graph: _____														
Computer Gen. _____														
_____ / 5pts	_____ / 5 pts													

Comments: _____

Board Total: _____ / 100

Presentation grading rubric: All students will present their projects to their classmates.

CATEGORY	10	7	4	1
Content	Student shows a full understanding of the scientific method and describes their experiment with details.	Student shows a good understanding of the scientific method and/or describes their experiment well.	Student shows a good understanding of parts of the scientific experiment and/or describes their experiment some.	Student does not seem to understand the scientific method very well and/or gives little information about their project.
Time-Limit	Presentation is 4 minutes long.	Presentation is 3 minutes long.	Presentation is 2 minutes long.	Presentation is less than 2 minutes OR more than 4 minutes.
Posture and Eye Contact	Student stands up straight, looks relaxed and confident. Establishes eye contact with everyone in the room during the presentation.	Student stands up straight and establishes eye contact with everyone in the room during the presentation.	Student sometimes stands up straight and does not always establish eye contact with everyone in the room during the presentation.	Student slouches and/or does not look at people during the presentation.
Speaks Clearly	Student speaks clearly all of the time, and has good volume.	Student speaks clearly all of the time and/or is hard to hear at times.	Student speaks clearly most of the time and/or is hard to hear.	Student often mumbles or cannot be understood.
Presentation Order and Relevance	Entire presentation relates to the scientific method/experiment and their presentation follows the proper sequential order.	Most of the presentation relates to the scientific method/experiment and/or order of presentation is not in proper sequence.	Little of the presentation relates to the scientific method/experiment and/or the order of the presentation is jumbled.	Very little of the presentation relates to the scientific method/experiment and/or no order is evident.
comments			Total points earned out of 50:	
			Grade:	