### What Do I Need To Do For The Science Fair?



7th Grade Life Science

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Life Science

<sup>\*</sup> Please note that this entire packet is written in the same font size and spacing of your research paper requirements. Therefore your final research paper should look something very similar to this packet in size and number of pages.

### Format for the Science Fair

### Research Paper

This is a report in which you summarize everything you have read about the topic for your science project. Choose any topic that involves **Life Science**. You will have to type this paper and make sure that you save it in a hard drive because we will be refining it several times before the actual due date. The size of the font should be no larger than **12**. The entire research paper should contain at least **7 pages** when you include the title page, table of contents, abstract, body of the paper (2-4 pages), picture page and bibliography. Do not put pages in plastic sheets. Present the report in a folder with your **full name and science period number** neatly typed.

The following are the required sections of your research paper in the given order.

- 1. <u>Title Page:</u> Put the title of your report in the center of the page, several inches (4-6) from the top of the page. Include relevant pictures to interest the reader. Type your full name, date, school, teacher and period in the lower right-hand corner of this page.
- 2. <u>Table of contents:</u> Write "Table of Contents" in the center at the top of this page. Below list reading materials that appear on each page. This Table is the last part to be completed. Eventually, you will organize each page of the report and put the page number to the far right of the Table.
- Abstract: This is a shortened version of the main ideas of your research paper. See page 5 for detailed instructions.
- 4. <u>Body of the Paper:</u> Ideally the body of your report should be a minimum of 2 pages double-spaced type. In this section of the report, you should:
  - a) Describe some important past research conducted by other people;

- **b)** State general information you gathered from periodicals, i.e. magazines, newspapers, interviews, information from the Internet or any other appropriate source;
- c) Any other interesting updated information. All information should be in your own words. Copies of information or print outs are not acceptable.
- **5.** <u>Picture:</u> Include an illustration, diagram, or science drawing with labels and descriptive captions.
- 6. <u>Bibliography:</u> This is a list of books, articles, pamphlets, internet, interviews and any other resources that you used for your research paper. You will need to have <u>at least 5</u> resources listed in your bibliography. The bibliographical entry should include the following: Author's Last Name, First Name, <u>Name of Book (underlined).</u> Publishing Company, copyright date, pages used.

Below is an example of how to list your sources:

Example One, Book:

Williams, Jack, <u>Modern Science</u>, McGraw-Hill Publishing, Copyright date1993, Pages 23, 30 & 33.

Example Two, Website:

http://www.science.com, American Association for the Advancement of Science, with assistance of Stanford University's HighWire Press, Copyright © 2004 by the American Association for the Advancement of Science.

\* Check out this website: http://www.liu.edu/cwis/cwp/library/workshop/citmla.htm

### **Writing an Abstract**

What is an abstract?

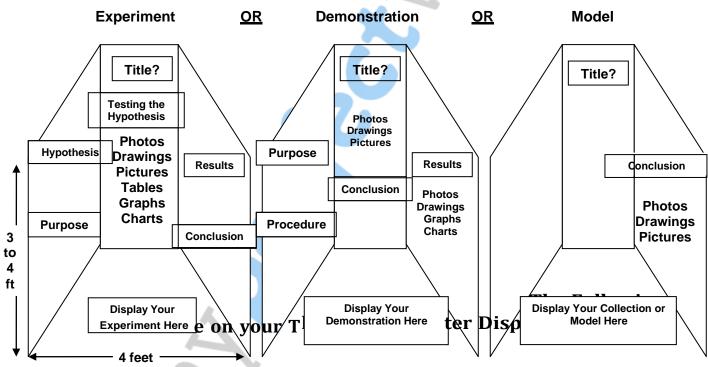
A shortened version of the main ideas of your research paper.

Write a one-page **Abstract** after you have completed your research paper, since it should highlight the main ideas. It should be easy to read, saving time from reading the entire research paper, and is used by the judges to check your research and reasoning. It must provide the necessary information to understanding what the research paper and project is about. Follow these instructions when writing an abstract:

- Who are you? In the first paragraph of your abstract please include information about yourself.
  - Your name
  - Address (Optional)
  - School you attend
  - Grade in School
  - Age
  - Category or your project such as: Life Science or Biology.
- 2. Purpose and Type of Project: State the purpose of the report and write the summary of your research in three to four paragraphs. Include the summary of your results and conclusion. Be sure to define any vocabulary that is important to the understanding of your research. Start your purpose with the word "To". Describe what type of project you have selected, such as:
  - Experiment
  - Demonstration
  - Collection
  - Model.
- 3. Acknowledgements: Acknowledge any person(s) or organization(s) that helped in the research of this paper and project. This should include facilities such as a laboratory workshop, office, garage, nursery, computer, or other facilities, given you suggestions, proofread your paper, etc.

### **Three-Panel Poster Display**

Use your creative skills to design a poster that will catch the eyes of the judges and the observers. Remember, only those who choose to do an **Experiment** and do it exceptionally well will be able to participate in the Science Fair. Please read the next page to clearly understand the difference between an Experiment, Demonstration, Collection and a Model. Construct a three-panel poster that stands alone, displaying the most important components of your project. Use stencils, stick-on letters or computer printed letters that are 2 – 3 inches in height to display your Science Fair Project Title (Question Form).



- The Title in the form of a <u>Question</u>
- 2. Hypothesis, "If... Then..."
- 3. Testing of your Hypothesis with Tables, Graphs or Charts
- 4. Analysis of your Results
- 5. Conclusion

- 6. Color and Contrast to capture the attention of the judges
- 7. Labeled free-hand drawings or pictures
- 8. Photographs of the different stages of your project
- 9. Creativity!

### A Complete Science Project should include

One of the Following Columns.

<b>Experiment</b>	
Highly	
Recommended	

### I. Signed Agreement

### II. Research Paper

- 1. Title
- 2. Table of Contents
- 3. Abstract
- 4. Body 2-4 pg Paper
- 5. Picture Page
- 6. Bibliography

### III. Three-Panel Board

- IV. Experimented material. Display it in front of your board.
- V. Oral Presentation
   If you have a
  partner, make sure
  both of you
  participate equally.

### <u>Demonstration</u> Model with moveable parts

### I. Signed Agreement

#### II. Research Paper

- 1. Title
- 2. Table of Contents
- 3. Abstract
- 4. Body 2-4 pg Paper
- 5. Picture Page
- 6. Bibliography

### III. Three-Panel Board

IV. Demonstration is a model with moveable parts. Demonstrate it.

V. Oral Presentation
- If you have a
partner, make sure
both of you
participate equally.

## Collection Of Life-Science material

### I. Signed Agreement

### II. Research Paper

- 1. Title
- 2. Table of Contents
- 3. Abstract
- 4. Body 2-4 pg Paper
- 5. Picture Page
- 6. Bibliography

### III. Three-Panel Board

# IV. Display the collection of your Life-Science Material

V. Oral Presentation
- If you have a
partner, make sure
both of you
participate equally.

## Model Without moveable Parts

### I. Signed Agreement

#### II. Research Paper

- 1. Title
- 2. Table of Contents
- 3. Abstract
- 4. Body 2-4 pg Paper
- 5. Picture Page
- 6. Bibliography

### III. Three-Panel Board

IV. Present your Life-Science Model in front of the display board.

V. Oral Presentation
- If you have a
partner, make sure
both of you
participate equally.

Student's Name		Period
Science Fair 3 - Panel Display &	Oral Presentation R	<u>ubric</u>
	, Ča	
Layout:		
a. Correct Format	25 Pts	_
b. Title Stated	25 Pts	_
	Total: 50 Pts	
Color/Contrast:	4	
a. Creativity	25 Pts	_
b. Eye Appealing	25 Pts	_
	Total: 50 Pts	
Completeness:		
a. Reported Project Thoroughly	50 Pts	
b. Info Clear and Concise	25 Pts	_
c. Neatness/Spelling	25 Pts	_
	Total: 100 Pts	
Oral Presentation:		
a. Reported Project thoroughly and answered a	III the Questions 75 Pts	
b. Voice, Poise and Confidence during Presenta		_
	Total: 100 Pts	_
<u>Total:</u> 50 + 5	0 + 100 + 100 = 300 Pts	

Comments:

# Important Due Dates for the Science Project (Put this up on your refrigerator)

Tuesday, September 4 <sup>th</sup> , 2012	Project topic <u>and</u> Parent and Student Agreement	
Monday, September 24 <sup>th</sup> , 2012	Bring at least three research material that are not exclusively internet. (i.e. Book, Internet print-out, Magazine)	
Tuesday, October 9 <sup>th</sup> , 2012	Research Notes - Handwritten or typed notes taken while researching	
Monday, November 13 <sup>th</sup> , 2012	<u>Typed</u> Rough draft of Research Paper. Include all components of the final paper. Total of 5 - 7 pages.	
Monday, December 10 <sup>th</sup> , 2012	Typed Final draft of Research Paper.	
Monday January 14, 2013	Three Panel Display	
Week of January 14, 2013	Oral Presentations	
February 4 <sup>th</sup> - 15 <sup>th</sup> , 2013	School Wide Science Fair Judged by Scientists. (Top 4 projects will be selected from each grade level for the District Fair)	
February 27, 2013	LA County Fair Registration Deadline	
*winners -start the online registration at least a week early!)		
(Tentative - March 8-9, 2013)	District Wide Science Fair Judged by JPL Scientists	
March 21-23, 2013	LA County Science Fair Pasadena Convention Center http://www.lascifair.org	
Sierra Madre Science & Engineering Fair Projects will be on Display during Open House		

For your reference please fill out the following and keep it with you. Project Title in the form of a Question\_\_\_\_\_?

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### **Grade 7 - Parent and Student Agreement**

The information/content and research completeness of your research paper will be graded by your Science teacher. If you choose to work with a partner, both are required to participate equally. Each member of the team should write their own separate research paper in the topic that they have researched independently.

On **Tuesday, September 4th, 2012** this signed agreement (**page 10 bottom portion only**) should be returned with your project written below. Your partner's name, if you choose to have one, should also be clearly written below. You will receive 5 extra credit points for submitting this page on time.

The research paper, the Science Fair 3 - Panel Display board and the Oral presentation will also be graded separately for a class grade. **Only the best Experiments** will be chosen and be allowed to participate in the school wide Science Fair. The Demonstration, Model and Collection projects will only be able to get a class grade and will **NOT** be able to participate in the Science Fair. **Therefore all students are encouraged to do an experiment.** 

Parents/Guardians, please allow the student(s) to come up with their own ideas. Please DO NOT do the work for them. Give all the support you can give, but let them do the work. Students who do well during the presentations and final interview are the ones who did the project by themselves and learned a lot through the whole experience. It is very obvious for the interviewer when they don't do the actual work.

A WORD OF CAUTION -- DO NOT WAIT UNTIL THE LAST MINUTE. A GOOD PROJECT TAKES MONTHS TO COMPLETE. YOU HAVE AMPLE TIME TO COME UP WITH SOMETHING BRILLIANT. ANY QUESTIONS REGARDING THIS PROJECT SHOULD BE ASKED <u>BEFORE</u> THE DUE DATES. PLEASE DO NOT ASK FOR EXTENSIONS AFTER ANY OF THE DUE DATES!

MOST IMPORTANTLY, PLEASE UNDERSTAND THAT NOT SUBMITTING ANYTHING FOR THIS PROJECT OR NEGLECTING ALL OTHER WORK AND DOING ONLY THE SCIENCE FAIR PROJECT COULD POSSIBLY RESULT IN FAILING SCIENCE THIS YEAR!

<b>X</b>	<del></del>	
I read the entire packet and I understand The following is the Life Science Topi		this project and meeting the deadlines. Science Fair Project:
Write the Project Title in the form of a	Question	?
I wish to work with(Your project par	tner's first and last nam	From Science period # nes)
Print Parent/Guardian's Name	Period #	Print Student's Name
Signature of Parent/Guardian		Student's Signature