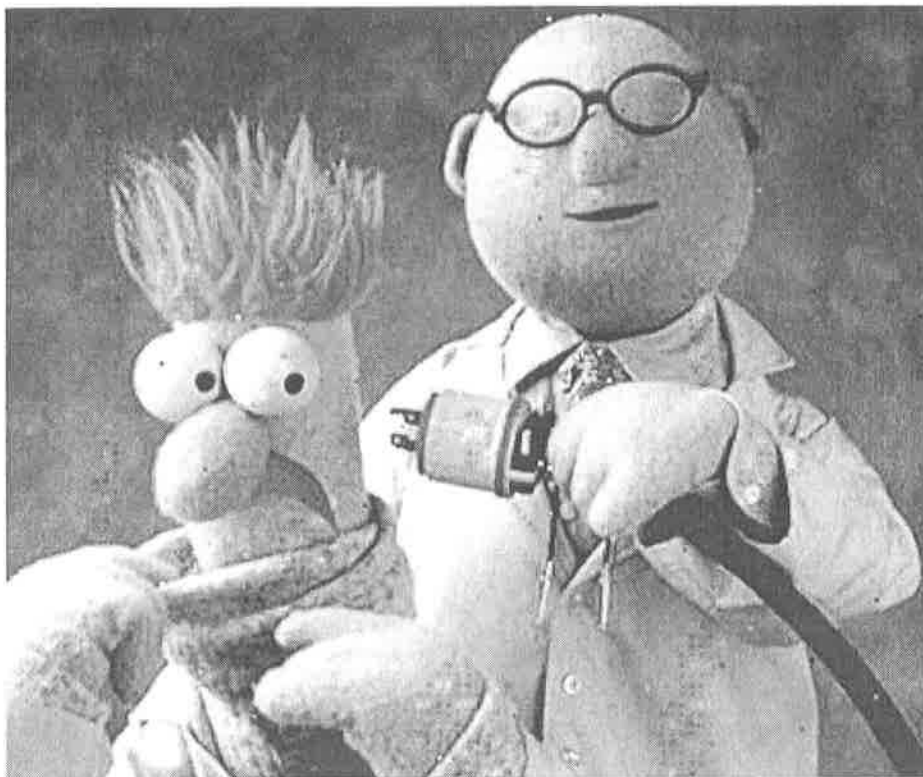


# Woodmere Middle School Eighth Grade Science Fair



Name \_\_\_\_\_

Teacher \_\_\_\_\_

Name \_\_\_\_\_

## 8<sup>th</sup> Grade Science Research Project Schedule

<b>Approximate Due Dates</b>	<b>Material Due</b>
Second week of September	For homework choose three science fair topics that are of interest to you.
Last week of September	Science fair project contract due. Choose one topic that you would like to study as your science project, your teacher and parent/guardian must approve this topic.
Middle of October	Hand in five index cards that summarize research that has previously been done on your scientific topic. One side of the index card must be the source of your research and the other side will be the summary of the research.
End of October	Project proposal due. The proposal will include the title of the project, a hypothesis, a list of materials needed, and the procedure you plan to take to complete the project.
Wednesday November 21, 2018	Rough draft of your research paper including your bibliography is due.
Monday December 10, 2018	All boards and research papers must be handed in. Presentations will begin in class.
Friday December 14, 2018	8 <sup>th</sup> Grade Science Fair in the Gymnasium.

# SCIENCE FAIR PROJECT CONTRACT

Please complete the following form and return it to your science teacher by October 1, 2018.

I, \_\_\_\_\_, agree to complete a science fair project on the following topic,

\_\_\_\_\_

I will be working with (if applicable)

\_\_\_\_\_

Student's Signature: \_\_\_\_\_

Parent/Guardian's Signature: \_\_\_\_\_



## Science Paper Requirements

- 2-page minimum paper if working alone.
- 3-page minimum paper if you are working with a partner.
- The paper must be double-spaced.
- Font must be Times New Roman and no larger than a font size of 12.
- Content of paper can not include any of the findings from your experiment. Those findings go on the tri-fold board.
- Must have a cover.
- Must have a work cited page.
- Must have at least 3 sources cited.

Name \_\_\_\_\_

Science Fair: Summary Template

**Summary of Research Previously Done On My Topic**

My Topic:

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Source of Previous Research (Where is this information from?)

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**Summary of Previous Research**

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Name \_\_\_\_\_

## Science Fair Project Proposal

Due: \_\_\_\_\_

- I. Purpose: (Write down your scientific question in the form of a How does question)

- II. Hypothesis: (Write down an educated answer to your question and give a reason for your answer.)

- III. Materials: Give a list of materials you think you will need for this project

- IV. Procedure: (Step by step recipe of what you are doing)

1.

2.

3

4

5

6

Etc

Etc

Name \_\_\_\_\_

★ **Science Fair Research Paper Rough Draft** ★  
**Due Wednesday 11/21 (Day before Thanksgiving)**

**Rough Draft Must Include:**

1. Cover Page

<p><u>Title</u></p> <p>Your Name Teachers' Names Date Period</p>
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2. 2 Pages (3 pages if you are working with a partner) of TYPED research **\*You must include at least 3 sources.\***

- Introduction
- Body Paragraphs (2 – 3)
- Conclusion

3. Works Cited Page (bibliography)

4. \*Must be **typed and printed**  
\*Double Spaced  
\*Times New Roman Font Size 12  
\*1-inch margins on each side

# Research Paper Checklist

## General Requirements:

1. \_\_\_\_ Am I sure that my paper **DOES NOT INCLUDE** any information about my experiment?
2. \_\_\_\_ Is my paper 2 pages long (working alone) or 3 pages (working with a partner)?
3. \_\_\_\_ Is my paper double-spaced?
4. \_\_\_\_ Is my paper in Times New Roman font size 12?
5. \_\_\_\_ Does my paper have a cover with a title, my name, my teachers' names, the date and the class period?
6. \_\_\_\_ Does my paper have a Works Cited page with sources correctly listed?
7. \_\_\_\_ Does my paper have correct margins? (Leave a margin of one inch at the top, bottom, left, and right of the page of all pages.)



## Writing Guidelines Checklist

1. \_\_\_ Did I write the material in my own words?
2. \_\_\_ Did I write using the third person? (Do not say "I" or "we".)
3. \_\_\_ Did I give proper credit when I used someone else's words?
4. \_\_\_ Does the first paragraph directly state the focus and intent of the paper?
5. \_\_\_ Do the paragraphs lead logically and clearly into each other?
6. \_\_\_ Did I proofread? (Proofreading is NOT the same thing as spell checking. Read your paper out loud to someone else to catch mistakes in grammar and wording.)
7. \_\_\_ Did I use transition words and phrases to show the progression of logical ideas? (Examples: after, first, later, soon, meanwhile, finally, following, at first, primarily, as a result, for that reason, therefore, consequently, however, in the same way, on the other hand, for instance, indeed, of course, moreover)
8. \_\_\_ Does my concluding paragraph restate the major points of my paper?

# Noodle Tools

is an online Bibliography/Works Cited creator to which the Woodmere Middle School library subscribes!  
This is a helpful tool that will let you AVOID PLAGIARISM by helping you write a Bibliography/Works Cited.

- Go to [www.noodletools.com](http://www.noodletools.com)
- **If you're at the WMS building**, it will recognize our computer's IP address.
- **If you're at home**, you will have to log in before creating your own personal account:

Username: woodmerems  
Password: student

- You should then create your own account. I suggest you use the same username and password that you use to log-on to a school computer.
- They do have a reminder system in case you forget your password.

- Once logged in, go to Create a New Project.

○ Choose "MLA Starter"

- Give your Bibliography a description, which would be the name of the assignment. Then click "Create Project"

- Then choose Works Cited

- Then choose whatever type of source you're using a choose "Create Citation"

- Continue to follow the directions, saving as you go.

- When you're done, choose "Save as Word Doc", then "Export and Print" to generate your Bibliography/Works Cited!

**Create a New Project**  
Select a citation style (MLA, APA, or Chicago) and level, then enter a short description of your project.

**Citation style:**

- MLA**  
follows the *MLA Handbook*, 7th ed.
- APA**  
follows the *APA Publication Manual*, 6th ed.
- Chicago/Turabian**  
follows *The Chicago Manual of Style*, 16th ed.

**Level:**

- Starter**  
Six basic forms  
An introduction to citing sources!
- Junior**  
A small set of simplified forms

**Description:** Science Fair  
For example, "History 101 report on George Washington"

Cancel Create Project

**Works Cited**

Cite as: <Select a citation type> Create Citation

Print or Online

Journal

Magazine

Newspaper or News wire

Reference Source (Dictionary, Encyclopedias, etc.)

Only Online

Email

Online Database

Web Site

**Components**

- Works Cited**  
MLA Starter  
0 entries
- Notecards & Outline**  
0 notecards
- Paper**  
Start a Google Doc

## Judges May Ask . . .

- How did you come up with this idea?
- How did you come up with this procedure?
- What was the control group in the experiment?
- What were some controls in the experiment?
- What weaknesses or errors were there in the experiment?
- What difficulties did you have to overcome?
- If you were to repeat the experiment, what would you do differently?
- What did you like most/least about this experiment?
- What is the importance of what you have done?
- How well do your graphs and charts illustrate your data and results?
- Was your hypothesis proven correct or incorrect?

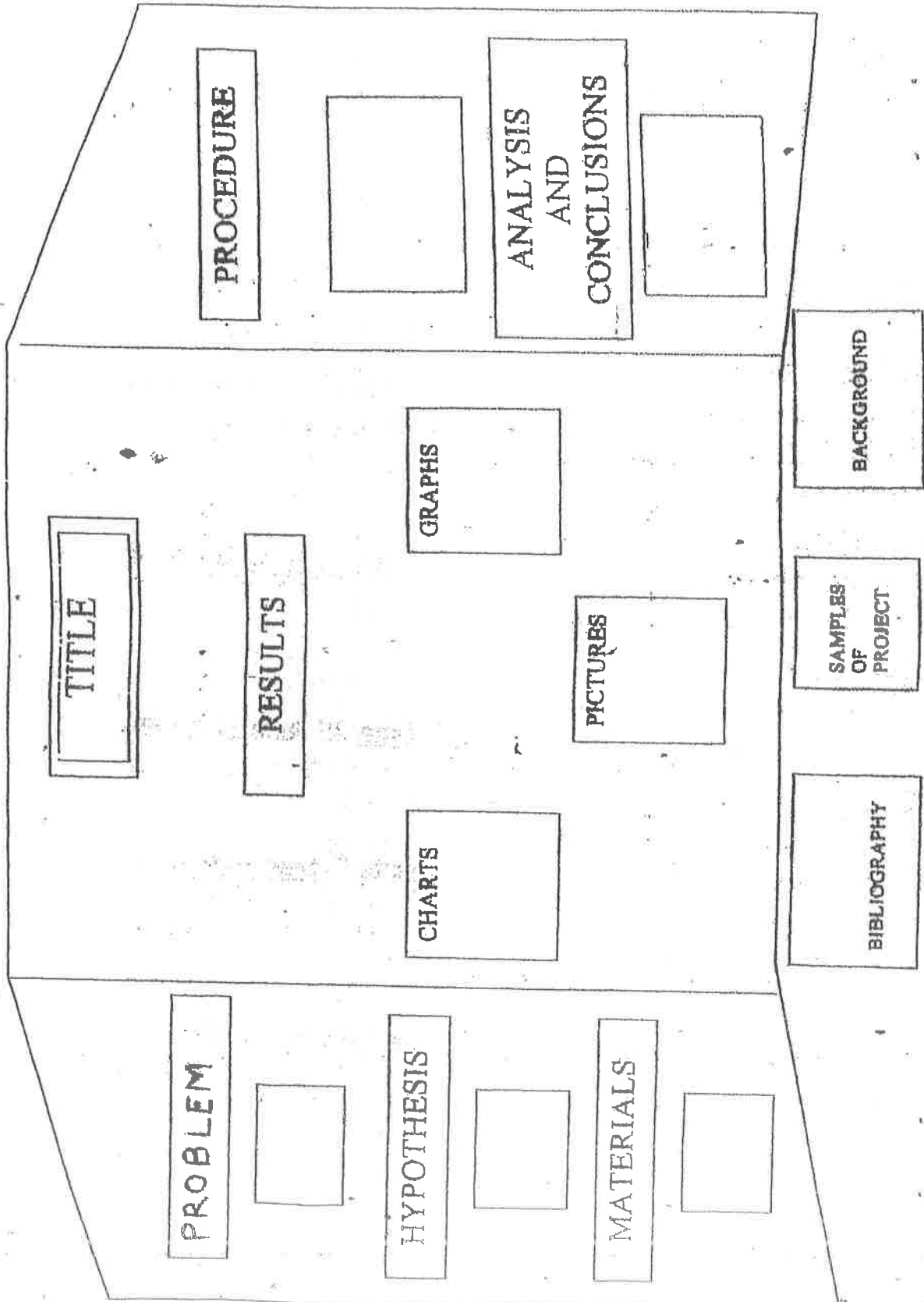
# THE DISPLAY BOARD

Your display board should follow the drawing on the next page in this packet. It must be done on a tri-fold board.

The steps of the scientific method will be posted on the two sides of the board. The name of each step should be shown, and a brief, but complete description of that section of the project should appear underneath. The lettering should be large enough for people to read at a distance of three feet. The headings should be mounted on a different color background to make them stand out.

In the center of the board, the title of the project should appear, along with any charts, graphs, pictures, etc., that help describe the project. The display board should be self-explanatory, so that anyone looking at it could tell what the project was about and what your results were, without any discussion. Every effort should be made to make the display as attractive as possible.

You will have some limited space in front of your board to display any materials or equipment you may have used.



## Science Fair Display Rubric

Student(s) Name: \_\_\_\_\_

Project Title: \_\_\_\_\_

Category	5	4	3	2	1	Points
<b>Purpose</b>	The student asks a question that is testable and measured quantitatively	The student asks a question that is testable, but it is not specific or quantifiable.	The student asks a question that is not testable or does not make sense	Student has a purpose, but it's not in the form of a question.	Missing	
<b>Hypothesis</b>	The student has a hypothesis that is quantitatively measurable and answers "the question" in an "If...then..." format	The student has a hypothesis that answers "the question", but it is not quantitatively measurable	The student has a hypothesis, but it does not answer the "testable question"	Hypothesis does not attempt to answer the scientific question.	Missing	
<b>Materials</b>	ALL the materials used for the project are listed	Some, but not ALL materials used for the project are listed	Majority of material is missing	The materials used for the project is present but not listed	Missing	
<b>Procedure</b>	The procedure is listed in steps and in a logical order which the audience is able to follow.	Procedure is listed in steps, however 1-2 steps are missing.	Procedure is not listed in steps and/or many steps are missing.	Procedure is out of order and most is missing.	Missing	

<b>Data Collection</b>	Student collects sufficient data and runs multiple trials if possible.	Student does not have a large sample size or doesn't run many trials.	Student has a very small sample size and/or only one trial.	Student only has one sample or trial.	Missing	
<b>Experimental Design</b>	There is a clear independent and dependent variable. Student can identify the controls and control group.	There is a independent and dependent variable. Student can not identify the controls or control group.	Student makes a poor attempt to control the experiment.	Student has no controls or too many variables.	Missing	
<b>Experiment Results</b>	The data tables/graphs are quantitative and answers "the question". Tables and charts include appropriate titles and labels.	Uses quantitative data tables/graphs but are not complete	The data tables/graphs are qualitative or incomplete	Graphs are not labeled and lines are not drawn.	Missing	
<b>Data Analysis/ Discussion</b>	Student clearly interprets results through logical discussion of results. The student uses data to explain <b>WHY!</b>	The student attempts to explain Why but does not connect their data with their explanation	The student explains what happened, but not <b>WHY</b> it happened	Students misinterprets the data and the graphs and cannot explain what happened.	Missing	
<b>Conclusion</b>	Conclusion answers the "testable question" using evidence from results	Conclusion answers the "testable question", but does not use evidence from the results	Attempts to answer the "testable question", but lacks clarity and evidence	Conclusion is there but does not attempt to answer the "testable question"	Missing	
<b>Display Board</b>	Display board is neat and attractive. Board follows a logical sequence.	Board follows a logical sequence. Labels, graphs and charts are not straight.	Parts of the scientific method are out of order. Labeling and charts/graphs are not neat.	Does not follow any logical order. Labels and graphs/charts are sloppily placed on board.	Missing	
<b>Comments:</b>						<b>Total</b>

## 8th Grade Science Fair Oral Presentation Rubric

**Student(s) Name:** \_\_\_\_\_

**Project Title:** \_\_\_\_\_

Category	4	3	2	1
Content	Student shows a full understanding of the scientific method and experimental design.	Student shows a good understanding of the scientific method and experimental design.	Student shows a good understanding of parts of the scientific method, but struggles to identify controls and variables.	Student does not seem to understand the scientific method and/or performs an experiment that is not controlled.
Time-Limit	Presentation is between 3 and 5 minutes.	Presentation is between 2 and 3 minutes.	Presentation is between 1-2 minutes.	Presentation is less than 1 minute or greater than 5 minutes.
Posture and Eye Contact	Student stands up straight the entire time, looks relaxed and confident. Student makes excellent eye contact with audience or is looking directly at camera.	Student is standing straight and looking relaxed most of the presentation. Student makes good eye contact with audience or consistently looks at camera	Student sometimes stands up straight. Does not always establish eye contact with audience or camera.	Student slouches and/or doesn't look at people or the camera during the presentation.
Speaks Clearly	Student speaks clearly all of the time.	Students speaks clearly most of the time.	Students is hard to hear or understand and says um or clears throat often.	Student speak to softly to be heard. Student often mumbles.
Answers Questions	Student is able to answer questions confidently and correctly.	Student answers the majority of questions correctly.	Student does not give accurate answers.	Student does not attempt to answer questions,
Presentation Order and Relevance	Entire presentation follows the proper sequential order.	Most of the presentation is in a logical order.	Little of the presentation flows in a logical order.	No order is evident. Class is confused.
Comments:				



## Background Research Paper Scoring Guide

Excellent = 4; Good =3; Partial = 2; Attempt Made = 1; Absent = 0  
 Paper Content is out of 10 points

Does the paper use proper grammar, correct spelling, correct punctuation, and complete sentences?	4	3	2	1	0
Does the paper meet the minimum page requirement and use the correct font? (Times New Roman or Arial 12-font)	4	3	2	1	0
Does the works cited/bibliography page follow the proper format?	4	3	2	1	0
Did the student(s) make the suggested corrections after the first revision by the teacher?	4	3	2	1	0
Does the paper reflect accurate content and subject matter?	10	8	6	4	2
Comments					Total

### Science Fair Grade

Total from Background Research Paper	
Total from Display Board	
Total from Oral Presentation	
Final Grade on Science Fair	