

MEMORIAL SCHOOL

2019 ACADEMIC EXPO

January 28th, 2019

Dear 5th and 6th Grade Parents/Guardians,

Please keep the evening of **WEDNESDAY, APRIL 17th, 2019** available so that you may attend the Memorial School Academic Expo! The Expo will be held from **7:00 pm to 8:00 pm**. Students will be expected to attend and present their projects to spectators at the Expo.

During the next few months your child is required to complete a science project which uses the scientific method or engineering design process to solve a 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. Students may work independently or with a partner (see Partner Agreement on page 4).

Most of the work will be completed at home. Close supervision will help your child develop good time management skills and will ultimately result in a quality project. Please monitor his/her progress, provide encouragement, and sign off on the specific due dates. Your support is key to a successful project. Please do not allow your involvement to extend any further in order to assure equity and promote student learning!

Please look through the following information and discuss the expectations with your child. **Next, sign and return the Entry Form (p. 9) and Partner Agreement Form (p. 10) (due Friday, February 8th, 2019)** so that we know that you have received this form and are aware of the project and who your child is working with. This complete packet is also posted on the Memorial webpage. If you have any questions, do not hesitate to email your child's science teacher or leave a message with the front office.

Sincerely,

Memorial School 5th and 6th Grade Science Teachers

CHECKPOINT DATES

Mark your Calendars!!!

1. ___ Entry Forms and Partner Contract due **Friday, February 8th, 2019**. (Quiz Grade)
 - One per pair
 - Pages 9 and 10

2. ___ Purpose and Hypothesis due **Friday, February 22, 2019** (Quiz Grade)
 - One per student
 - Page 11
 - Purpose: A detailed statement that explains the purpose of the project and why it was chosen
 - Hypothesis: A short, concise guess of what you think will happen and why

3. ___ Materials and Procedures due **Friday, March 8th, 2019**. (Quiz Grade)
 - One per student
 - Page 12
 - Materials: List the materials needed
 - Procedures: List the steps needed to be taken from beginning to end of the project

4. ___ Observations and/or Raw Data due **Friday, March 29th, 2019**. (Quiz Grade)
 - One per student
 - Page 13
 - Observations: Statements and descriptions of what you have observed
 - Raw Data: Measurements, numbers, or any information you have gathered in regards to your project

5. ___ Final Project (Tri-fold and Oral Presentation for 5th Grade) and (Tri-fold, 3 paragraph essay, and Oral Presentation 6th Grade only) accepted between **April 11th ~, April 17th, 2018**. **The specific date for your class will be determined by your teacher.** (Test and Lab Grade – **NO lates will be accepted**)

NOTE: Each checkpoint is minus 10 points for each day late (does NOT apply to the final project).

RULES

1. All students of all grades are required to participate.
2. Students may work independently or with one partner in the same grade.
3. Relatives and friends may guide or advise a student with his/her science fair project, but remember that this is a student project.
4. Caution and safety practices are to be observed and followed at all times.
5. The following are prohibited:
 - live animals
 - open flames
 - unapproved substances or chemicals
 - volcanoes (ex. Combining baking soda and vinegar)
 - oobleck, gloop, or slime
6. Absolutely no late projects will be taken. There will be a four day window for submission.
7. If you have any questions or concerns, please contact your science teacher.
8. Students are expected to attend the Expo on the evening of Thursday, April 6, 2017.

CHECKLIST

1. ___ Think of a problem or choose a topic you would like to explore.
2. ___ Form a hypothesis, or an educated guess to what the result may be.
3. ___ Gather the materials necessary for the project.
4. ___ Consider the procedures for the project and follow them.
5. ___ While working on the project, make sure to collect data, make graphs, and/or take pictures.
6. ___ Once the project is completed, analyze your data and take note of your results.
7. ___ Draw a final conclusion.
8. ___ Work on the tri-fold. Make sure each heading and the required information is neatly presented on the tri-fold in order. Refer to the diagram of the tri-fold in this packet before you paste everything on.
9. ___ **6th Grade Only! Type up your 3 paragraph essay abstract and make sure to include a bibliography. Give credit where it is due. Plagiarizing will NOT be tolerated. Be sure to explain the science behind your project.**
10. ___ Attend the Expo on the evening of WEDNESDAY, April 17th

PARTNER AGREEMENT

By signing the contract, I understand that:

- I do not have to work with a partner, but I have the choice to work with a partner who is in the same grade.
- I have read through this packet and am aware of the check point dates, my responsibilities, and the rules.
- I must meet all of the deadlines for the science fair checkpoints.
- Other than the final project (tri-fold and final abstract), I must turn in my own copy of the work.
- I have to work in a cooperative manner with this person through the entire project.
- If my partner and I are in two different classes, we will give two separate presentations and will be responsible to explain the project in its entirety.

See page 10 for the actual contract that needs to be turned in by ***Friday, February 8th, 2019.***

TRI-FOLD

This is how your tri-fold should be set up.

<p data-bbox="261 548 560 625">Purpose, problem OR question</p> <p data-bbox="334 772 487 810">Hypothesis</p> <p data-bbox="342 957 479 995">Materials</p>	<p data-bbox="724 443 873 499">Title</p> <p data-bbox="639 699 959 779">Data, graphs and/or pictures go here.</p>	<p data-bbox="1114 552 1256 590">Procedure</p> <p data-bbox="1135 737 1235 774">Results</p> <p data-bbox="1102 926 1268 963">Conclusions</p>
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ABSTRACT

6th Grade Only!

Three paragraph abstract:

- Paragraph 1: introduction/purpose/hypothesis
- Paragraph 2: procedures
- Paragraph 3: data/results/conclusion

Format:

- Must be written in third person (No "I," "we," "me," or "my")
- Double spaced
- 1 inch margins
- 12 point font (Times New Roman, Arial, or Calibri)
- 5 to 8 sentences per paragraph
- Bibliography attached at the end (the directions are on the next page)
- Absolutely NO plagiarizing

BIBLIOGRAPHY FORMATS

6th Grade Only!

Book:

Author's last name, first name. *Book title*. Additional information. City of publication: Publishing company, publication date

Example:

Allen, Thomas B. *Vanishing Wildlife of North America*. Washington, D.C.: National Geographic Society, 1974.

Article:

Author's last name, first name. "Article title." *Periodical title* Volume # Date: inclusive pages.

Example:

Kanfer, Stefan. "Heard Any Good Books Lately?" *Time* 113 21 July 1986: 71-72.

Internet:

Author's last name, first name (if available). "Title of work within a project or database." *Title of site, project, or database*. Editor (if available). Electronic publication information (Date of publication or of the latest update, and name of any sponsoring institution or organization). Date of access and <full URL>.

Example:

Devitt, Terry. "Lightning injures four at music festival." *The Why? Files*. 2 Aug. 2001. 23 Jan. 2002 <<http://whyfiles.org/137lightning/index.html>>.

GRADING

You will be graded on the following:

- Tri-fold
- Abstract (**6th Grade Only**)
- Oral presentation

Please refer to the rubric on page 8.

Science Fair Rubric

0 = No Evidence 1 = Some Evidence 2 = Clearly Evident			
Tri-fold			
The display board includes the following:			
• Title		0	1 2
• Question/Problem		0	1 2
• Hypothesis		0	1 2
• Materials		0	1 2
• Procedures		0	1 2
• Data/Graphs		0	1 2
• Results		0	1 2
• Conclusions		0	1 2
The sections are in the correct order.		0	1 2
Neatness		0	1 2
Effectiveness		0	1 2
Proper punctuation, spelling, and capitalization		0	1 2
Display Total:		/24	
Oral Presentation			
Speaks clearly		0	1 2
Voice Projection		0	1 2
Eye Contact		0	1 2
Knowledge of Material		0	1 2
Oral Presentation Total:		/8	
Abstract			
The abstract includes the following:			
• Introduction		0	1 2
• Question/Problem		0	1 2
• Hypothesis		0	1 2
• Materials		0	1 2
• Procedures		0	1 2
• Data/Graphs and Results		0	1 2
• Conclusions		0	1 2
• Bibliography		0	1 2
Proper punctuation, spelling, and capitalization		0	1 2
Abstract Total:		/18	
Subtotal:		/50	
Deductions:			
Total:		/50	

*** Abstract 6th Grade Only Final Project is out of 50 points**

5th Grade Final Project is out of 32 points *

ENTRY FORM

- Fill out the form neatly and hand it in to one of your science teachers.
- Hand in **ONLY** one form per pair by ***February 8th, 2019.***

Grade: _____

Student One:

Name: _____

Science Teacher and Period: _____

Student Two:

Name: _____

Science Teacher and Period: _____

Title of Project:

Brief Description about the Project:

Do you need an electrical outlet? ____yes ____no (plugs must be in good shape)

Teacher use only:

Location: _____

Project #: _____

PARTNER CONTRACT FORM

Directions:

- Read the contract (page 4) and look through the rest of the packet.
- Student One fill out the form neatly and pass it on to Student Two.
- Student Two fill out the form neatly and hand it in to one of your science teachers.
- Hand in one form per pair by ***February 8, 2019***.

Student One:

Name: _____

Student Signature: _____

Science Teacher and Period: _____

Parent's Name: _____

Parent's email address: _____

Parent's phone number: _____

Parent's signature: _____

Student Two:

Name: _____

Student Signature: _____

Science Teacher and Period: _____

Parent's Name: _____

Parent's email address: _____

Parent's phone number: _____

Parent's signature: _____

