

Name _____

2017 - 2018 Science Fair Project Timeline

Completing a science fair project this year is mandatory for 9th-10th grade students. The science fair project is 20% of your overall grade. Participation in this project ***DOES NOT*** guarantee that a student's project will be entered into the Fulton County Science Fair Competition as only 5 projects can be submitted per school. This project will be in motion simultaneously with other classroom activities, therefore it is important for students to practice good time management skills and refer often to the schedule of due dates that will be given.

September

Due Date

Sept 5-6 Topic selection and partner contract due to Ms. Gore

Set up Science Fair folder to help yourself stay organized as follows:

1. Abstract
2. Research Report (a very formal lab report)
3. ISEF Paperwork
4. Teacher Paperwork
5. Appendix

Sept 20-21 **Proposal due**; requires parent signature; must be approved for in-depth research to begin

Sept 25-26 Proposals returned. If approved begin in-depth research; if not approved, you are to revise and re-submit a new proposal the next day

Work on Research Plan: Finalize the problem/formulate the question;
State hypothesis, variables; list procedures; document **5** sources

*****Transcribe approved proposal into your log book*****

October

Oct 4-5 Use your proposal to refine and revise your experiment plan:
_____ Materials list – create, revise as needed, check on availability
_____ Write detailed procedures; follow guidelines from website info
_____ Assemble materials

Oct 9-10 **ISEF forms due** with parent/student signatures and dates. Signature dates must be prior to the date that the experiment actually begins.

- _____ **Checklist for Adult Sponsor (1)**
_____ **Research Plan (1A) + written research plan**
_____ **Approval Form (1B)**

Oct 9-10 **OFFICIALLY Begin Experiment** (this is a student holiday, take advantage of this time)

Parent signature must be in logbook to indicate experiment was started:

- _____ Repeat trials at least 3 times
_____ Observe and record data

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- _____ Take photos, sketch illustrations or make models of the experiment in progress
- _____ Document all phases and/or changes of experiment within logbook
- Oct 18-19 LOG BOOK CHECK**

November

Nov 1-2 LOG BOOK CHECK

Nov 2-3 Begin writing your formal research report - Refer to ISEF notes to assist you in writing your research paper. Work on data analysis using data from the experiment; create charts, tables, graphs; write the results statement and discussion

Nov 13-14 TYPED DRAFT Project Report:

- Cover Page & Table of Contents
 - Science Question
 - Purpose
 - Background information
 - Hypothesis
 - Variables (IV/DV/Controlled)
 - Materials (metric)
 - Procedure
 - Bibliography
 - Table of Average Data
 - Graph(s)
 - Data Analysis
 - Conclusion
 - Appendix (with Raw Data)
- Your paper will be peer reviewed in class.

Nov 16-17th Final Typed Project Report Due (after peer review and corrections)

Complete revisions to research report. Make sure that you have followed the guidelines given in class for writing a formal research report.

Nov 20 – 24 THANKSGIVING BREAK (Eat, drink, and WORK ON BOARD)

Design and construct display board

http://www.sciencebuddies.org/science-fair-projects/project_display_board.shtml#keyinfo

December

Dec 1 Abstract due (use online form) **ABSTRACT REQUIRED FOR ALL PROJECTS**

In Class Science Fair **Boards are Due**

<https://member.societyforscience.org/document.doc?id=24>

Dec 8th HCCA Science Fair!!!!

Febuar

Fulton County Science Fair is Saturday, February 3, 2018 at North Springs High School

Project set up ---January 22, 2016 4:30 – 7:30 pm

Science Fair Presentation, Interviews, and Judging----January 23, 2016 9:00 am – 5:30 pm

March

Georgia Science and Engineering Fair: Athens Classic Center

March 22 - March 24, 2018

May

International Science and Engineering Fair: Pittsburgh, Pennsylvania

May 13 - May 18, 2018

Science Fair Project Resources

<http://www.georgiacenter.uga.edu/youth/academic-special-programs/georgia-science-and-engineering-fair>

<http://www.crystal-clear-science-fair-projects.com/>

<http://www.cpet.ufl.edu/sciproj/sci002.htm>

<http://www.sciencebuddies.org/>

<http://school.discoveryeducation.com/sciencefaircentral/Getting-Started.html>

http://go.hrw.com/resources/go_sc/hst/HSTGP221.PDF (if you are a list person or need more structure then this is the resource for you!)

Teacher Paperwork

Student Responsibility

- I have read the above timeline information, dates and requirements.
- I have written them in my agenda.

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- I understand that some of these dates are subject to change and that I will be notified of such changes. If I have not been notified, then I am to assume that the due date is correct and I am to abide by that date.
- I understand that all required forms are to be signed and that I am to keep them in a science fair binder. **I must hold on to all original paper work.**
- I understand that I must write an original research report. I understand that I will be evaluated on each of the following:
 - written research report
 - oral presentation
 - logbook record
 - display board
 - quality of my research

Student name (print)

Student Signature

Date

Parent Responsibility

- I am aware of the Science Fair project due dates and agree to help keep track of my child's progress.
- I am aware that this project involves independent research on the part of my child and that he/she is expected to do his/her own work. Assistance is permitted, however, all written work, project design and execution of tasks must be completed by the child.
- I have read the above timeline information, dates and requirements.

Parent name (print)

Parent Signature

Date

Science Fair Partner Contract

By signing the following contract I understand that:



- ✓ I must meet all of the deadlines for the science fair checkpoints with my teacher and in my period.
- ✓ All work must be turned in with our names, periods and teacher.
- ✓ **I understand that I must write my own research paper separate from my partner. We should collaborate, but are still responsible for our own paper.**
- ✓ If we have different teachers, all deadlines must be met in my own science class and by that teacher's deadline to receive credit.
- ✓ **I understand that because I am choosing to do a project with another person I am aware that I will be required to take my project further and more in depth to earn the same grade that I would on my own. Team projects must justify two people working together.**
- ✓ I understand that this is a three-month project and I will be able to work in a cooperative manner with this person through the entire project.
- ✓ Each student will write **their own research paper** using at least 2 **different sources** from their partner.



Student One:

Print Name _____ Student Signature _____

Science Teacher _____ Period _____

Home phone _____ email address _____

Parent Name _____ Parent Signature _____

Student Two:

Print Name _____ Student Signature _____

Science Teacher _____ Period _____

Home phone _____ email address _____

Parent Name _____ Parent Signature _____

Teacher Signature: _____ Date _____

Topic Selection

Name _____

Partner _____

The question that you select for your science fair project is the cornerstone of your work. The research and experiment you will be conducting all revolve around finding an answer to the question you are posing. It is important to select a question that is going to be interesting to work on for at least a month or two and a question that is specific enough to allow you to find the answer with a simple experiment. A scientific question usually starts with: How, What, When, Who, Which, Why, or Where. Here are some characteristics of a good science fair project question:

- The question should be interesting enough to read about, then work on for the next couple months.
- There should be at least 3 sources of written information on the subject. You want to be able to build on the experience of others!

Now, for something like a science fair project, it is important to think ahead. This will save you lots of unhappiness later. Imagine the experiment you might perform to answer your question. How does that possible experiment stack up against these issues?

- The experiment should measure changes to the important factors (variables) using a number that represents a quantity such as a count, percentage, length, width, weight, voltage, velocity, energy, time, etc. Or, just as good might be an experiment that measures a factor (variable) that is simply present or not present. For example, lights ON in one trial, then lights OFF in another trial, or USE fertilizer in one trial, then DON'T USE fertilizer in another trial. If you can't measure the results of your experiment, you're not doing science!
- You must be able to control other factors that might influence your experiment, so that you can do a fair test. A "fair test" occurs when you change only one factor (variable) and keep all other conditions the same.
- Is your experiment safe to perform?
- Do you have all the materials and equipment you need for your science fair project, or will you be able to obtain them quickly and at a very low cost?
- Do you have enough time to do your experiment before the science fair? For example, most plants take weeks to grow. If you want to do a project on plants, you need to start very early! For most experiments you will want to allow enough time to do a practice run in order to work out any problems in your procedures.

Your proposed science fair project question is...

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