Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_

**Science Fair 2016: Important Dates**

Each of the following sections will be discussed at length in your science class! Play close attention to any details and take notes if needed! \*Dates are subject to change!!!\*

**Monday, September 6: Tentative Ideas Due**

*You will choose* ***2****-3 topics with a brief description of how you will carry out the experiment on a piece of notebook paper labeled “Science Fair Topic Proposal” to show your teacher on this date. Put your topics in order of preference (1st choice, 2nd choice, etc.). Your teacher will discuss your options and you will decide on the final topic together. Include the following on your paper:*

a. Question/Problem

b. Describe the method you’ll use to carry out your experiment (this MUST be a topic that can be determined through designing an experiment, NOT a systematic observation or research topic!!!!!)

Note: Projects with living objects (animals, plants, humans, etc…) are NOT encouraged. Earth/Space, Physical science, and engineering ideas are strongly recommended. Brand comparison projects, such as which type of battery lasts longest, which brand of diaper absorbs the most water, etc. are discouraged.

**Monday, September 19: Paper Work Due**

You will be sharing your Project Data at this time. In your Project Data Book you should have the following information recorded:

-**Notes from your “research” and bibliography** (must have 2 sources)!

-**Your guiding question** (What are you trying to find out?)

-**Hypothesis**/Goals/Expected Outcomes

-Identify **independent variable** (test/manipulated variable)

-Identify **dependent variable** (outcome/ observed variable)

-Identify **variables and factors you’ll have to control or keep constant** in your experiment.

- **Materials list** (complete)

-**Procedure** – This will be a step by step, **DETAILED** procedure of your experiment. It needs to be detailed to the point that anyone reading it could replicate your experiment, exactly as you did it, by reading these procedures.

-**Data Collection** – What type of data will you be collecting (quantitative or qualitative)? How you will collect and organize your data? The data can be in raw form, or in a table or chart.

-**Data Analysis** - Graphs do not have to be completed at this point, but you should know which type of graphs and/or charts you plan to use to illustrate your ANALYZED data.

**September 23 – October 28: Carry out your experiment!!**

Be sure to collect your data in an organized fashion and keep all data in your Project Data Book!

\*\*Nothing due during this time

**Friday, October 21: Meet with Mr. Rodriguez (optional)** to monitor progress, help solve issues that may be affecting project, make improvements, etc.)

**Friday, October 28: Data/ Results Due (optional)**

This will include a graph and/or chart of the data collected in your experiment as well as a verbal (written) description of your findings. Mrs. Bauer will look over results and offer feedback if desired.

**Thursday, November 17: Research Plan Due**

*This draft needs to be typed on printer paper!* Follow Rubric. Will be peer reviewed on Friday, November 18th.

**Friday, November 4 – Sunday, November 20: Work on Display Board!**

Display Board: Tri-Fold, 36 inches x 48 inches (Recommended).

**ISEF Guidelines: Maximum Size of Project
Depth (front to back): 30 inches or 76 centimeters
Width (side to side): 48 inches or 122 centimeters
Height (floor to top): 108 inches or 274 centimeters**

**November 21,22, and 28– Classroom Science Fair**

This is the day you will bring your display board and Research Paper (and data book if you kept one) to your science class. We will then set up during our class period.

**Tuesday, November 29 – Set-up in Media Center**

Students who will be moving on to the SCMS Science Fair will be setting up in the Media Center during their science class period. Follow the directions given to you by your science teacher and Mr. Rodriguez in the Media Center on this day.

**Wednesday, November 30- SCMS Science Fair**

Each student will report to the media center at an assigned time. You will be given your assigned time when you set up your project on November 20. You will spend approximately one hour in the media center discussing your project and being interviewed by science fair judges.

December 1- SCMS Science Fair awards

December 2- LETS CELEBRATE! Bridge trip to Atlanta Aquarium and Coca cola factory (optional)

\*Go to [www.mrsbauerscience.weebly.com](http://www.mrsbauerscience.weebly.com) for helpful science fair links\*