This will be your organizational tool, as well as, your timeline for **DUE** dates. **NO CONSUMER SCIENCE PROJECTS** because you are beyond just product testing. Please choose a project that you are not only interested in, but you are willing to put forth the quality result we know you are capable of creating. Great website: [*www.sciencebuddies.org*](http://www.sciencebuddies.org)*.*

 **Friday 9/10/20**

**Topic card** (6 points) on an index card and **signed letter of intent DUE**

Please describe (not list) three (3) specific ideas for a science fair project to your science teacher. Good projects will include practical real world experiences, such as, water conservation, environmental issues, physics, math, technology etc. Prioritize your projects and explain last year’s project. It’s strongly recommended to extend last year’s project. However, both consumer and behavioral projects are not allowed at the eighth grade level of competition.

1. **Friday 9/20/19**

**SFB 1-4 DUE (20 points)**

* 1. **Title**- What do you intend to title your project? Be creative.
	2. **Question/Problem**- What are you trying to solve? This must be formatted into a question.
	3. **Purpose**- Why are you doing this project? Must be stated “to determine” and relate project to your personal connection.
	4. **Hypothesis**- What is your educated guess/prediction for the outcome of this project? This must be stated “if…then…”
1. **Friday 09/27/19**

**SFB 5-9 DUE (20 points)**

1. **Variables**-
2. Independent-What is being tested or changed?(x axis on your graph)
3. Dependent-What is being measured? (y axis on your graph)
	1. **Control Group**- This is the comparison group which is unchanged.
	2. **Constants**- All factors that are kept the same in the experiment i.e. time of day, temperature and location.
	3. **Procedure**- A summary of your experiment. List and number step by step instructions.
	4. **Lab supplies**- Please indicate any lab supplies you may need to borrow. If you don’t need any then write none.
4. **Friday 10/25/19**
	1. **ROUGH DRAFT Research Paper, formerly called Review of Literature DUE (50 points**) The paper must be 8-10 pages, double spaced, 12 font, Times New Roman Font, and 1 inch margins.

**This is an expository paper on the background, important information about your project (MUST be done in the 3rd person, not I, you, me etc).** For example: my project was testing students’ math test scores with music playing. My paper would be about all portions of that project: the process and history of different types of assessments, the brain and its cognitive ability, music and the history, ear parts and auditory processing etc…

**\*Reference Citations in the Text\***

Whenever using your own words to refer indirectly to another author’s work (paraphrasing), you must identify the original source. The “author- date method” of citation is used for this purpose, but without quotation marks. A complete reference must appear in the bibliography at the end of your paper. See the website/manual for more details ([www.ijas.org](http://www.ijas.org))

**\*\*\*\*\*PLAGIARISM WILL RESULT IN A ZERO FOR THIS PORTION OF THE PAPER.**

1. **Friday 10/25/19**

 **SFB 15 DUE (20 points)**

**The bibliography for the research paper.**

This must be in APA format and alphabetical order.

10+ sources are required and two sources must be derived from the EBSCO database.

Sources must be current as of the past 10 years.

**Friday 11/9/19**

 **SFB 10-14 DUE (50 points)**

1. **Results**- The written form of all your data collection and the facts that occurred in your experiment. At least five trials should be averaged and stated in order to clarify your results.
2. **Standard deviation**- The percent of error that occurred in your experiment. (The more testing the lower the error.) http://invsee.asu.edu/srinivas/stdev.html
3. **Data table**- The data tables must be computer generated and include the same five trials and averages as the written results portion.
4. **Graph(s) -** Using the collected data, **create** computer generated line or bar graphs.
5. **Conclusion**- Did you prove or disprove your hypothesis? Elaborate and rationalize your results using your hypothesis. State a connection to your review of literature information and summarize your findings. **Future plans**- If you were to continue this project, how would you change it in the future? List specific ways to expand your project and connect with world applications.
6. **Friday 11/22/19**

**Final paper/board/presentation DUE (200 points)**

* + A final, revised paper will be turned in to the teacher. No paper with teacher remarks written on it should be turned in as the final paper.
	+ A backboard will be used to help display knowledge from the project using the scientific method.
	+ An oral presentation will be presented to classmates about the project.
1. **Friday 12/13/19**

 **Science Expo 1:00-2:10**

* + Students who have completed the science fair will have the opportunity to present their projects and knowledge to parents and community members.
	+ Students who completed their project at the advanced level will receive information about the Regional Science Fair only if their project qualifies for the next level of competition.
	+ The Regional Project and Paper Sessions will be held on two consecutive Saturdays in March. The dates are TBD.
	+ The State Competition will be held in May at Millikin UniversityThe dates are TBD, however, it is usually held on the first weekend of May.