EDP Science Fair Project Timeline Log

Name: _____ **Teacher:** _____

Parent/Guardian Signature: _____

	Suggested Due Date	Parent Initials	Teacher Initials
▪ **Follow the** "**Topic Selection Wizard**" (**TSW**-*neon green paper*) **step-by-step directions** to generate a list of project titles specific to your own personal interest. ▪ **SUBMIT** - Your Topic Selection Wizard list of three project titles for teacher approval - must be signed by parent/guardian (*neon green paper*)	Week of NOV 2 - 6		
▪ **Review with parents** all the "Topic Selection Wizard" project ideas approved by your science teacher. Read them carefully before choosing one for your science fair project. ▪ **Read your project's components** to familiarize yourself with the content (summary, background, materials, and procedure), and identify all safety concerns before making your choice. ▪ **Follow the "Project Printout" step-by-step directions** stapled to the TSW. Print your chosen project in its entirety; some projects can be up to 20+ pages long. Staple pages together in the correct order. Be thorough following the step-by-step directions. It is very important that you complete this task correctly. ▪ **SUBMIT** – Your Science Buddies project printout for your chosen project.	Week of NOV 9 - 13		
▪ **Begin to research your project's topic** by reading your project's introduction, the experimental procedure, and two or more sources from the bibliography list. ▪ **Identify your project's** terms and concepts, questions, and bibliography. Using your teacher provided worksheets or MS Word templates, find the proper definition to the terms, answer questions in complete sentences and use the bibliography worksheet to cite 3 sources of information used to complete your research. ▪ **DO NOT SUBMIT** – Instead keep inside your STEAM folder for future teacher evaluation – Upon teacher's request, students who can demonstrate completion of their research will receive **EXTRA CREDIT**!	Week of NOV 16 - 20		
▪ **Follow the EDP Guide "Define the Problem"** available in ScienceBuddies.org ▪ **Read your project's objective** to define the problem. Describe the problem by writing a **problem statement**. (NOTE: *Sometimes your project title is or can be modified into a problem statement*) Your problem statement must answer three questions: 1. **What** is the problem or need? 2. **Who** has the problem or need? 3. **Why** is it important to solve? ▪ The format for writing a problem statement uses your answers to the questions and follows these guidelines ▪ _____**WHO**_____ need(s) _____**WHAT**_____ because _____**WHY**_____. ▪ **SUBMIT** – Your problem statement (preferably typed)	Week of DEC 7 - 11		
▪ **Carefully read and complete** the double-sided **Engineering Project Proposal** (front side) and the **Rules & Regulations** (back side). Both sides must be signed by student and parent/guardian. It's important to include your problem statement because it sets the purpose for the rest of the science fair process. ▪ **Carefully read and complete** any applicable verification form for use of animals and/or volunteers (*pink form*). ▪ **SUBMIT** - Engineering Project Proposal / Rules & Regulations form (*sky blue form*) ▪ **SUBMIT** – ***Only if applicable***, the Vertebrate Animal or Human Subject verification form (*pink form)* ▪ **ORDER** display board - **$8** for a 48" x 36" tri-fold board with title board and labels (while quantities last)	Week of DEC 14 - 18		

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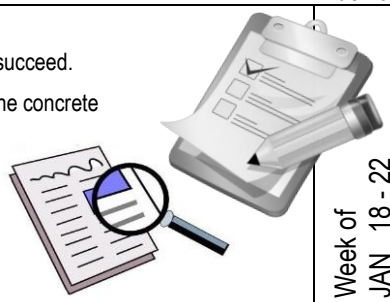
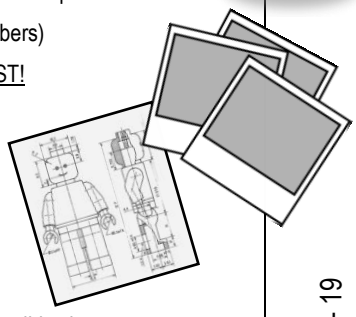
▪ **Follow the EDP Guide "Specify Requirements"** available in ScienceBuddies.org. ▪ Design requirements state the important characteristics that your solution must meet to succeed. One of the best ways to identify the design requirements for your solution is to analyze the concrete example of a similar, existing product, noting each of its key features. ▪ Complete the "Design Brief Worksheet". <u>Documenting your design ideas is important for an engineering project, especially if you are entering a science fair.</u> ▪ **<u>SUBMIT</u>** – Your **"Design Brief Worksheet"** 	Week of JAN 18 - 22		
▪ **Follow the EDP Guide "Brainstorm & Choose the Best Solution"** available in ScienceBuddies.org. ▪ Good designers try to generate as many possible solutions as they can before choosing one that they feel is the best. Some solutions probably meet more design requirements than others. Reject solutions that do not meet the requirements. ▪ **Complete a "Pros & Cons List"** or the **"Decision Matrix Worksheet"** you compare your solutions and choose a design. ▪ **<u>SUBMIT</u>** – Your **brainstorm sketches** and **"Pros & Cons List"** or **"Decision Matrix Worksheet'** 	Week of JAN 25 - 29		
▪ **Conduct your test in 1-2 weeks**. Read your project's procedure and gather your materials to develop, build, and test your prototype. ▪ **Follow the EDP Guide "Develop the Solution, Build and Test a Prototype"** available in ScienceBuddies.org. ▪ Development involves the refinement and improvement of a solution, and it continues throughout the design process. A prototype is an operating version of a solution, allowing the designer to test how the solution will work. ▪ **Check for SAFETY** - Are you going to required adult supervision? Underline these materials and steps with red. ▪ **Record and organize** your test results (data) in a table or chart. Data can be qualitative (numbers) and/or quantitative (descriptive words). <u>Photographic evidence of tests and/or results is a MUST!</u> Don't forget to write a qualitative and/or quantitative caption for each photograph. ▪ **Display your results** in a graph (if applicable). Choose the best type of graph to display and analyze your data. Make sure to label your graph properly (title, x-axis, and y-axis) ▪ **<u>SUBMIT</u>** – Your **DATA** (preferably typed) – must include data table with trial data and average, graph(s), photographs, and diagrams (if applicable) all properly labeled. ▪ **Begin preparing your project for display**. Choose between the display board or Power Point slide show. Use the <u>Display Board Layout Checklist</u> if you choose the tri-fold board. Use the <u>Power Point Presentation Template</u> if you choose to go digital. Remember to be neat and creative with your display or presentation.  	Week of FEB 15 - 19		
▪ **Follow the EDP Guide "Test & Redesign"** available in ScienceBuddies.org. ▪ Engineers do not always follow the engineering design process steps in order, one after another. It is very common to design something, test it, find a problem, and go back to an earlier step and make a modification or change to your design. This way of working is called **iteration**, and it is likely that your process will do the same! ▪ **Improve your solution** by making modifications or changes to your initial design**.** You will likely test your solution, find new problems, make changes, and test new solutions before settling on a final design. ▪ **<u>SUBMIT</u>** – Your **Final Design** (preferably typed)	Week of FEB 22 - 26		
▪ **Communicate your results** by following the **"EDP Display Board Layout Checklist"** or the **"EDP Power Point Presentation Layout Checklist"** to ensure you don't forget anything! ▪ **<u>SUBMIT</u>** – Your completed science fair project. NO prototype models allowed due to space limitations. 	March 7 8 9 10 11		

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