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		
▪ **Read your project's objective** and rewrite it as a question. This will become your testable question. It must be a cause and effect question, including details of what is being changed. NOTE: *Sometimes your project title is or can be modified into a testable question; also the project's introduction and procedure can provide cause and effect relationships.* ▪ **Follow the "How to Write a Testable Question" step-by-step directions** provided by your teacher. ▪ **SUBMIT** – "How to Write a Testable Question" (*coral paper*)	Week of DEC 7 - 11		
▪ **Carefully read and complete** the double-sided **SF 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 testable question 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** - Science Fair 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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▪ **Identify your variables** – There are 3 types of variables; independent, dependent, and controlled. Your testable question has 2 variables; the **independent** (cause = what you change) and the **dependent** (effect = what happens/data). Read the experimental procedure to help you identify the **controlled** variables, which are the factors that must be kept the same. Identifying the variables correctly insures the experiment is fair. ▪ **Write your hypothesis** - Based on your research and experience write the possible answer to your testable question and explain why. Use one of these two formats to write your hypothesis. **"I think … because according to …" OR "If … then … because according to …"** ▪ **SUBMIT** – Your **VARIABLES** and **HYPOTHESIS** (preferably typed)	Week of JAN 18 - 22		
▪ **Follow the "Ready to Experiment" step-by-step directions** provided by your teacher. Edit your materials and procedure if substitutions are made, always include quantities. Begin to gather your materials at home. The procedure must be numbered. Make sure to indicate conducting sufficient trials (how and when to repeat the experiment) to collect enough reliable data. (**trials** - minimum of three trials, *but some experiments will require more, check procedure*) ▪ **Check for SAFETY** - Are you going to required adult supervision? Underline these materials and steps with red ▪ **SUBMIT** – Your "Ready to Experiment" along with your Project Printout **MATERIALS** and **PROCEDURE**	Week of JAN 25 - 29		
▪ Conduct your **experiment** in 1-2 weeks. *Minimum of 3 trials; some experiments will require more.* ▪ **Record and organize** your trial data in a table or chart. Data can be qualitative (numbers) and/or quantitative (descriptive words). Photographic evidence of tests and/or results is a MUST! Don't forget to write a qualitative and/or quantitative caption for each photograph. ▪ **Display your data** in a graph. 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) ▪ **SUBMIT** – Your **DATA** (preferably typed) – must include 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 Display Board Layout Checklist if you choose the tri-fold board. Use the Power Point Presentation Template if you choose to go digital. Remember to be neat and creative with your display or presentation.	Week of FEB 15 - 19		
▪ **Follow the "Writing a Conclusion" step-by-step directions** provided by your teacher. Analyze your data by describing in detail the cause and effect relationship(s) of your experimental results. Explain if the data supports or rejects your hypothesis. The data is the evidence that will support or reject your hypothesis. Describe which variable would you change and test next. ▪ **Write your application.** Explain what you learned and/or identify a practical use for this new knowledge. ▪ **SUBMIT** – Your **CONCLUSION** and **APPLICATION** (preferably typed)	Week of FEB 22 - 26		
▪ **Follow the "Display Board Layout Checklist"** or the **"Power Point Presentation Layout Checklist"** to ensure you don't forget anything! ▪ **SUBMIT** – Your completed science fair project. NO models or props allowed due to space limitations.	March 7 8 9 10 11		

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