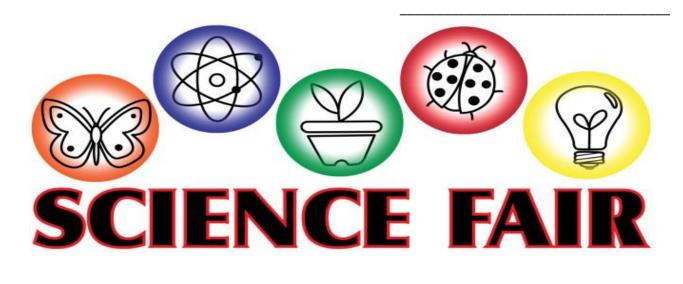
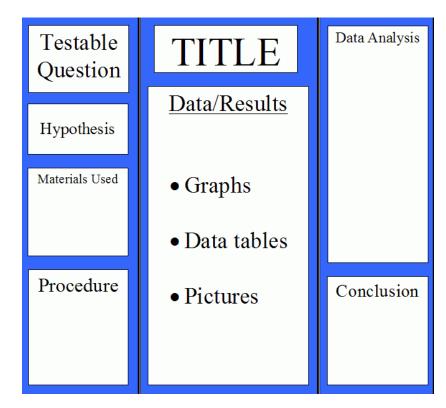
Name(s): \_\_\_



## PLANNING GUIDE



For more ideas and information, visit <u>TimothyLutheranScienceFair.jmstack.com</u> Direct questions to your science teacher, or Mrs. Stack, <u>jennifer@the-stacks.com</u> **Testable Question**: State the problem you are investigating in the form of a question. (*Example: "How can you keep apple slices from turning brown?"*)

 $\frac{1}{2}$  Testable questions usually start with "How..." or "What affect does..."

**Hypothesis**: Answer your testable question with an educated guess. (*Example: "I think putting baking soda on the apple slices will have the greatest effect on preventing them from turning brown, because baking soda is used to clean things."*)

 $\frac{1}{2}$  Be sure to explain in your hypothesis WHY you predict these results!

**Planning your experiment:** How will you test your hypothesis? What will you do to make sure your test is FAIR and MEASURABLE?

- Brainstorm below what you might need for your experiment (draw set-up, make lists, etc.)



Materials Used: (This section might be a list, a photo of your experiment set-up, or a few sentences describing what you needed to do the project.)



 $-\frac{1}{2}$  Be sure to include any measurements of materials.

**Procedure**: (Describe in steps how you conducted your experiment. Be as detailed as you can!)



It's okay if you have to change your procedure during your experiment, but make sure you keep track of your changes in your notes!

Data/Results: (Keep track of all your results here. For your final project you may wish to include pictures, graphs, or charts; be sure to label them carefully so others will know what they are!)

**Analysis**: (Summarize your results/graphs/pictures in 1-2 paragraphs. Describe what surprised you, what worked or didn't work well, and other things that happened that may have affected your project.)


**Conclusion**: (Write 1-2 paragraphs. Make sure to answer <u>each</u> of the following questions in complete sentences!)

Do your results support you hypothesis? Why or why not?

How can the results or data from the experiment be useful?

What other questions about this topic do you have now?

Now, put it all together! Use the layout guide on the packet front to plan your project poster. Write neatly, or type each section. Be sure to include an eye-catching heading for each section.