My Science Fair Project Planner

Name _____ Grade_____ Homeroom Teacher _____

Science Fair Project Question: (Use one of the two templates below or come up with your own. Must be approved by a science teacher or Mrs. Elgert)

1. What affect does _____have on the _____?
2. How does _____effect _____?
3. _____?

Teacher Approval: _____ Date: _____

Abstract

You will need to prepare a written abstract of your science fair project. This is a summary of your project. It should include the following:

1. Introduction. This is where you describe the purpose for doing your science fair project or invention. ...
2. Problem Statement. Identify the problem you solved or the hypothesis you investigated.
3. Procedures. ...
4. Results. ...
5. Conclusions.

Planning Your Presentation

Use the chart below to plan your PowerPoint presentation. Remember, you can stay after school on Science Club days to work on your presentation. Your experiment will be done at home. If you put pictures on a flash drive, we can get them to you so you can include them in your presentation.

Slide #/Overview	Description	My Notes
Slide 1/Title	Project title, your name, grade, school, science teacher's name, category	
Slide 2/ Introduction	• Explain the background concepts that your audience needs to understand your project and research • Describe why you chose your project and its purpose	
Slide 3/Problem	• State your question and specific objectives	
Slide 4/ Hypothesis	Based on your research, write a best educated guess to your question. The hypothesis should include the independent and dependent variables. Example: • If I use organic soil in my garden, my plants will grow taller • If I clean apples with a store bought fruit cleaner, they will rot more slowly • If I heat copper sheets, they will heat more quickly • If I feed Fluffy store bought rabbit food, she will gain weight more quickly	

Slide #/Overview	Description	My Notes
Slide 5/ Experimental Design Including DV, IV, Constants, Controls and Repeated Trials ***You may use two slides on this if necessary***	Dependent variable (DV): The measure of change observed. It is measureable and observable Example: • Growth (plant height) • Cleanliness (bacteria growth) • Heat (temperature) • Weight of an animal	
	Independent Variable (IV)The one variable that you purposely change and test. "What is it that I changed?" Example: • Type of soil • Type of fruit cleaner • Type of material being heated • Type of food being offered	
	Constants: What things stayed the same? Think of height, weight, distance from a source, amount of force applied, etc.	
	Repeated Trials: How many trials did you do? Did your results come out similar or different?	
Slide 6/Experiment Materials	A detailed list of all of the materials you used in your experiment Specific—weight, amounts, quantities, brands, types Example: • 5 Fuji apples • Keep it Fresh fruit wash • Tap water • Bounty paper towels	

Slide #/Overview	Description	My Notes
Slide 7 /Experiment ***This might take more than 1 slide***	1. Outline the steps you used and the materials you needed to collect your data. This should be precise enough to be replicated. 2. Use pictures to describe your procedure when possible 3. Include any safety guidelines followed in your experiment.	
Slide8/ Results	• Summary data are presented • Numerical Data (Data Tables – everything should be labeled & titled) • Graphs • Photographs	
Slide 9/ Results	• Evaluate the data for general trends and variability • Demonstrate an understanding of the analysis you used, by describing how it was done and what it means	

Slide 10/ Discussion	• This is where you interpret your results
	  o State your major findings
	  o Compare them to other research
	• Use your data to support the conclusions that you are drawing form your data
	• What are the major reasons, with citations, that explain the major trends found in your data?	

Slide #/Overview	Description	My Notes
Slide 11/ Conclusion Part 1	• State your conclusions clearly and concisely • State whether the hypothesis is accepted or rejected (supported or not supported) • Suggest any improvements that could be made • What are your "next steps" in your research?	

Slide 12/ Works Cited and Bibliography	• The sources you used should be cited here
	  o This can be done on the slide here
	  o The sources used for each slide can be listed on the footer of the slide	

Slide 13/ Acknowledgements	Thank all of the individuals and organizations that helped you You can insert pictures here if you want	