Steps in Creating a Science Fair Project

Creating a science fair project is a lot of fun! Here is a guide to setting up your science fair project.

Problem

Write the problem (in the form of a question) that your science fair experiment will seek to answer.

Remember, a problem is a question for which you do not have an answer, but that may be answered by experimentation.

Hypothesis

Your experiment must include a hypothesis. The hypothesis is an educated guess written as a declarative statement. It is an idea that can be tested through an experiment. Usually, a hypothesis is based on previous research into a topic or idea.

State the hypothesis is in the form of an "If, then AND because" statement.

Conclusion

Tell whether or not your hypothesis was accepted or rejected. Explain any problems you encountered along the way. For example, did a cat dig up or knock over one of your test plants? What challenges did you face, and how did you overcome them?

Each component of a science fair project is essential to the overall presentation. If you are missing a piece, people will not fully understand what you did. Be careful not to make your project too complicated. Stick with simple, and you will be a winner for sure!



Experimental Design

The experiment is one way to test the hypothesis. You should test one variable, and all other factors must be controlled. Be sure to identify the test subjects (plants, people, soil, etc.)

Determine what are you testing/experimenting on? Describe the control group. Remember, the control group is the part of the experiment that remains the same. Use it as a constant with which you compare the results of the dependent variable.

Describe the experimental group, which is the group/thing that is being experimented on. Describe the dependent variable. Describe the independent variable. This is the change you are making to the experimental group.

Describe the methods you will use to control the variables. Are you using the same size or height each time, the same air temperature outside, the type of soil, etc.?

What test equipment are you going to use?

A detailed step-by-step description should be provided so that anyone could completely duplicate this experiment.



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TD Snyder

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