

Science Fair Kickoff Assembly



Monday, January 8, 2018

What is a Science Fair?



Let's Get Started!



Step 1

Observe and **question** the world around you to determine a topic you want to investigate.

What do you observe?



What questions
do you have?

Ask a Testable Question

The Science Fair

Experiments = Testable Questions

- Questions that can be answered by collecting data or making observations.
- Often start with *how*, *what*, or *which*.
- Testable questions are about changing one thing to see the effect on another thing.

Testable Questions

- How does fertilizer affect the growth of bean plants?
- Which type of food will meal worms choose most often?

Not Testable Questions

- What is an electromagnet?
- Why do volcanoes erupt?



No Demonstrations

Example of testable question

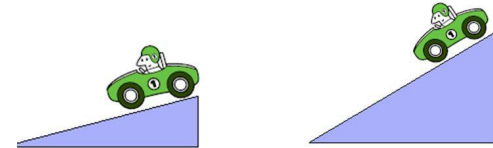
Will adding coffee grounds to the soil around my rose bush make it grow taller?



This is a good testable question because it can be answered by an experiment with results based on factual data (measurements of the rose's height).

Sample Testable Question

How does the height of the ramp affect the speed of a car going down the ramp?



Examples of Testable Questions

A. What amount of water is best to grow tomatoes?

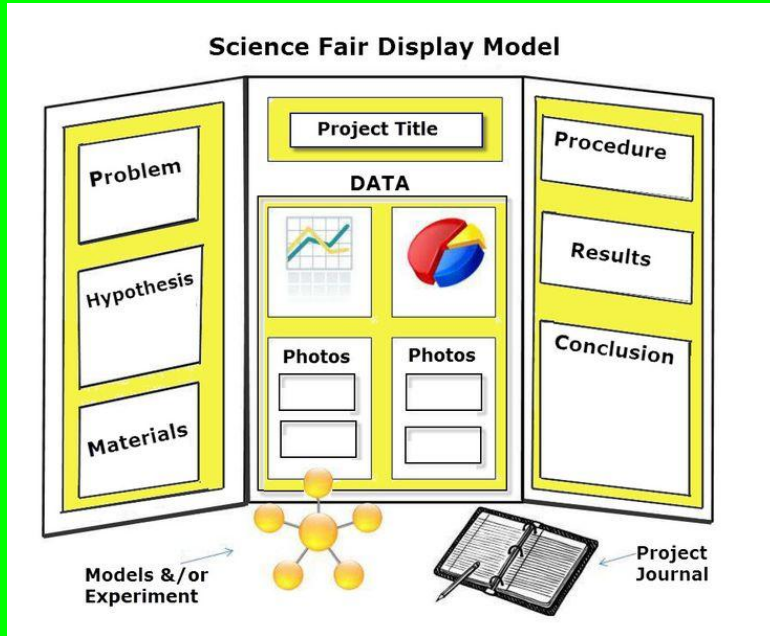
Setup: 3 pots of tomato plant, each pot is watered a different amount



Science Fair Examples

Guidelines

All Science Fair projects must include the following:



Create a Display Board showcasing your Science Fair project.

- Title
- Purpose / Problem (Testable Question)
- Hypothesis (Prediction)
- Materials
- Procedure (Steps)
- Results (Data, Charts, Graphs)
- Conclusion

Timeline

Month	To Do
January	<ul style="list-style-type: none">• Choose Topic• Develop Testable Question• Create Purpose
February	<ul style="list-style-type: none">• Make Hypothesis• Identify Materials Needed• Develop Procedure• Conduct Experiment (Start)
March	<ul style="list-style-type: none">• Conduct Experiment (Finish)• Collect Data• Analyze Results• Create Conclusion• Create Display Board
April	<ul style="list-style-type: none">• Judging Projects (Week of April 2nd)• Science Fair Nigt (April 4th)

Resources

Makerspace
Open Lab Hours

Wednesdays after school
from 3:30 - 4:00.

Fridays before school from
8:30 - 9:00.

We are looking for at least 25 students to participate in the event. If enough interest is shown, **Informational Science Fair packets** will be sent home containing more specific project ideas, guidelines, timelines, and rubrics for judging to students who have committed.



CIP School Website;
“For Families” Tab;
“Science Fair” Tab



- After all projects have been judged, during the Science Fair Night the following winners will be announced:
 - One winner per grade level (3-5).
 - One overall **schoolwide winner!**



Interested?



- Talk about the Science Fair with your families. Make sure that you are able and committed to working on this project at home.
- Complete the “Science Fair Interest Survey” given to you by your teacher.
- Start observing the world around you, choose an interesting topic, and think about a testable question you want to investigate or problem you wish to solve.