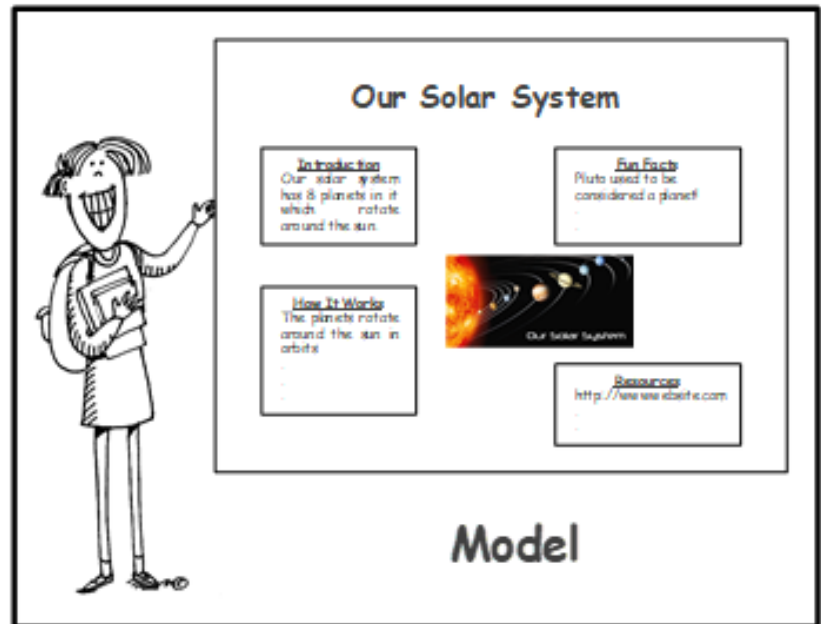


Types of Science Fair Projects:

There are two types of science fair projects - **MODELS** and **EXPERIMENTS**. You can learn a lot from both types of projects. If you create a **MODEL**, you will research your topic of interest and demonstrate how it works. If you conduct an **EXPERIMENT**, you will go through the **SCIENTIFIC METHOD**, which is the way a scientist investigates in a lab.

MODEL: This type of project shows how something works, but does not involve any hypothesis or testing. Examples of **MODELS** can be: "The Solar System" or "Types of Dinosaurs", "All about Volcanoes", or "Tornado in a Bottle".



To complete a **MODEL** for your Science Fair Project you will need to:

- Come Up With A Topic
- Do Research
 - ✓ Read encyclopedias, magazine articles or books from the library, and internet articles about your topic
 - ✓ Possibly interview other experts who work with your topic*
 - ✓ Determine materials you need to best demonstrate your model
- Collect Information (existing data)
 - ✓ Interesting pictures
 - ✓ Cool fun facts
- Present Your Work In A Poster
 - ✓ Introduce your topic
 - ✓ Explain the topic or describe the model
 - ✓ List resources
 - ✓ Demonstrate how your model works (create a hands on model for your audience to see/touch/hear/etc.)

***Sometimes websites will give you e-mail addresses to experts who can answer questions...do NOT write to anyone on the Internet without adult supervision.**

EXPERIMENT: This type of project involves asking a question, coming up with ways to test and collect data, and then reporting the results of the tests and hopefully answering the original question. Examples of **EXPERIMENTS** can be: "Which Paper Towel Is More Absorbent?" or "What Structure Can Withstand The Most Amount Of Weight?"

To complete an EXPERIMENT for your Science Fair Project you will need to:

- Come Up With A Topic
- Follow The SCIENTIFIC METHOD
 - ✓ Ask a **Question** (using one of the examples below)

Effect Question:

What is the effect of _____ on _____?
sunlight growth of plants
oil a ramp

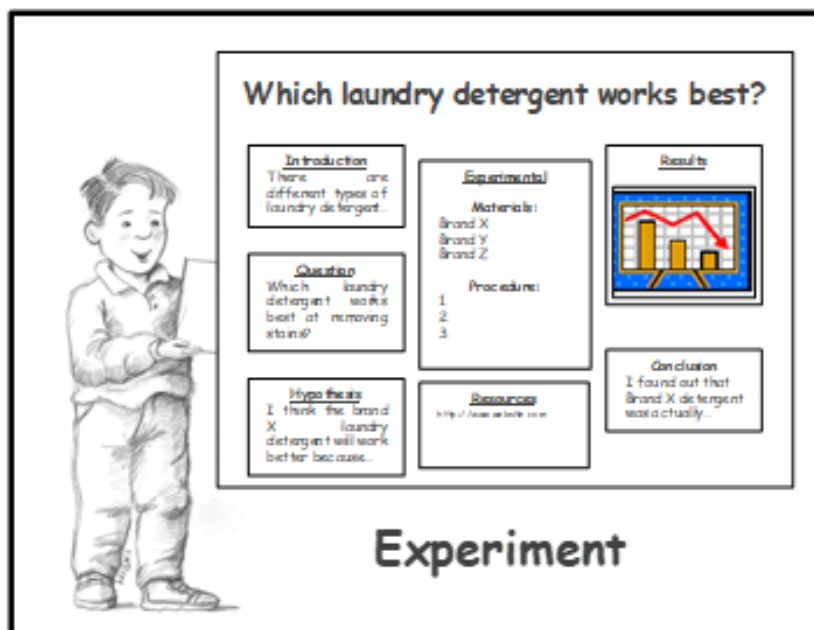
How Does Question:

How does the _____ affect _____?
color of material its absorption of heat
humidity the growth of fungi

Which/What Verb Question:

Which/What _____ (verb) _____?
paper towel is most absorbent
detergent makes the most bubbles

- ✓ Do **Research**
 - Read encyclopedias, magazine articles or books from the library, and internet articles about your topic
 - Interview other experts who work with your topic* (maybe take pictures of interviews)
- ✓ Form a **Hypothesis**
 - Predict what you think will happen if you test your problem.
 - "Smart Guess" that you make even before you start experimenting, based on your research
- ✓ Conduct **Experiments** (maybe take pictures)
- ✓ Collect information/gather data to form your **Results**
 - Use plots or graphs to display your data
- ✓ Form a **Conclusion**



➤ Present your work in a poster

- ✓ Introduce your topic
- ✓ Identify question (example: Which Paper Towel is More Absorbent)
- ✓ Identify hypothesis (example: I think Brand X will be more absorbent because its thicker, and it's a more popular brand...)
- ✓ Explain experiments/procedures (if your experiment is small and safe, bring it in for a hands-on demonstration!)
- ✓ Show results
- ✓ Form a conclusion (example: I found out that Brand X was actually...)
- ✓ List resources

***Sometimes websites will give you e-mail addresses to experts who can answer questions...do NOT write to anyone on the Internet without adult supervision.**

Both types of projects will require a display board. You can purchase a display board or make one out of cardboard. It should be able to stand on its own. Displays should include the following:

MODEL	EXPERIMENT
<ul style="list-style-type: none">• Introduction (Title / Topic)• Pictures/Fun Facts• Explanation of Topic or Description of Model• List of Resources/Interviews	<ul style="list-style-type: none">• Introduction (Title / Topic)• Purpose: your question• Hypothesis: what you think will happen• Pictures• Experiments and Results• Conclusion• List of Resources/Interviews