

# Winter Break Science Project

*Watts Learning Center 8th Annual Family Science Night  
Thursday, January 22nd 2015  
4:00pm-6:00pm*

# Goals:

- Understand the steps Scientific Method
- Understand how to conduct a science experiment
- Understand the materials needed to create a science project display board

# The Scientific Method

Understanding and Following the Steps in the Scientific Method is essential to having a successful Science Project Experiment!

# SCIENTIFIC METHOD



## 1 QUESTION

Ask yourself, "What do I want to learn more about?", or "I wonder what would happen if . . .?"

## 2 HYPOTHESIZE

Research to help you make an educated guess, or hypothesis, and then answer your question.

## 3 EXPERIMENT

Test your hypothesis by making a plan and conducting an experiment.

## 4 OBSERVE & RECORD

Make careful observations and write down what happens.

## 5 ANALYZE

Use your information to draw conclusions about your experiment. Was your hypothesis correct?

## 6 SHARE RESULTS

Explain your results by presenting your experiment, observations, and conclusions.

# Step 1 (planning)

Question, Problem or Purpose

## Step 2 (planning)

Your Hypothesis should answer the question- it's an “educated guess”. It must be something that can be tested!

“If I \_\_\_\_ (do this), then \_\_\_\_ (this) will happen.”

*\*Now is the time to make a list of the materials you will need for your experiment!*

# Step 3 (experimenting)

Conduct an experiment using materials you gathered.

As you are conducting your experiment, you should be completing the next step...

# Step 4 (experimenting)

Observe and Record:

- Take photos, draw Pictures, take Notes
- Complete charts & graphs
- Draw & Write down what you see happening!
- The data you record will become a part of your display- so make it look nice!



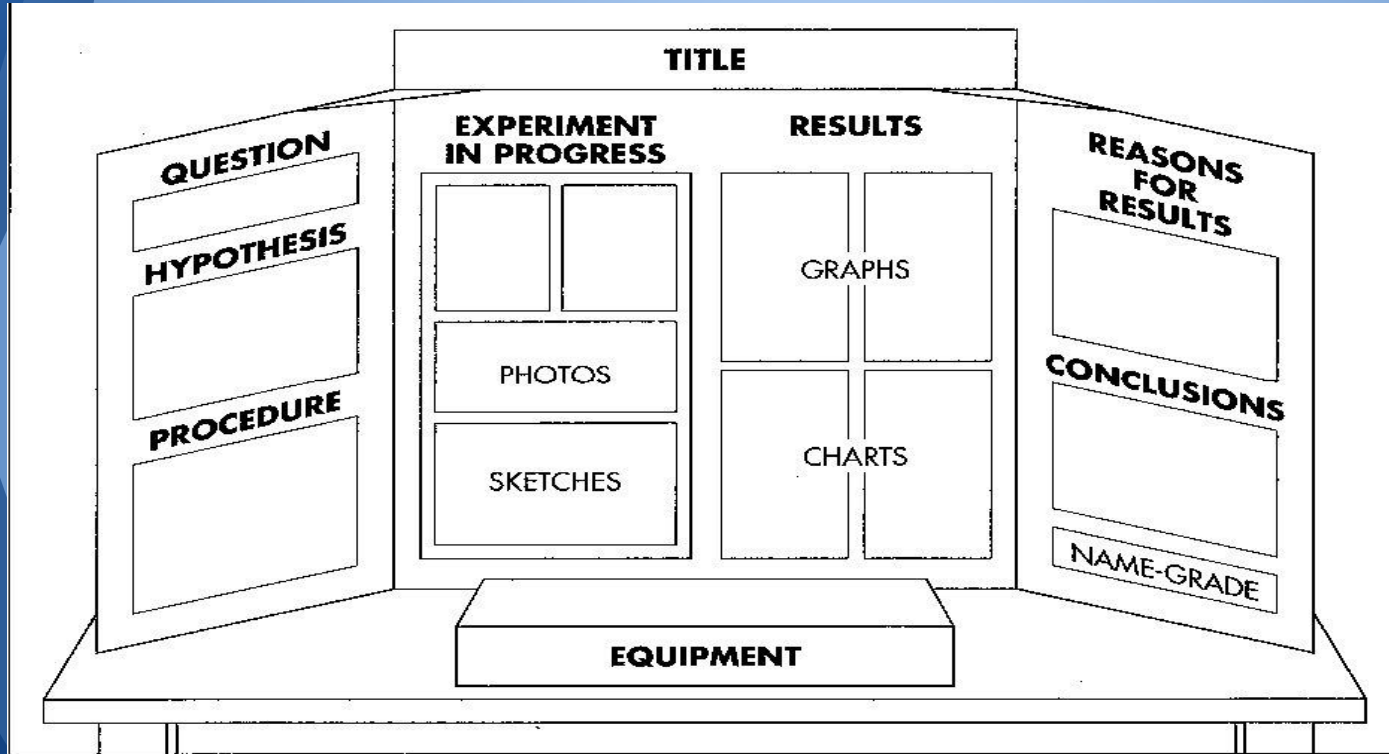
# Step 5 (data analysis)

Analyze results and Draw conclusions

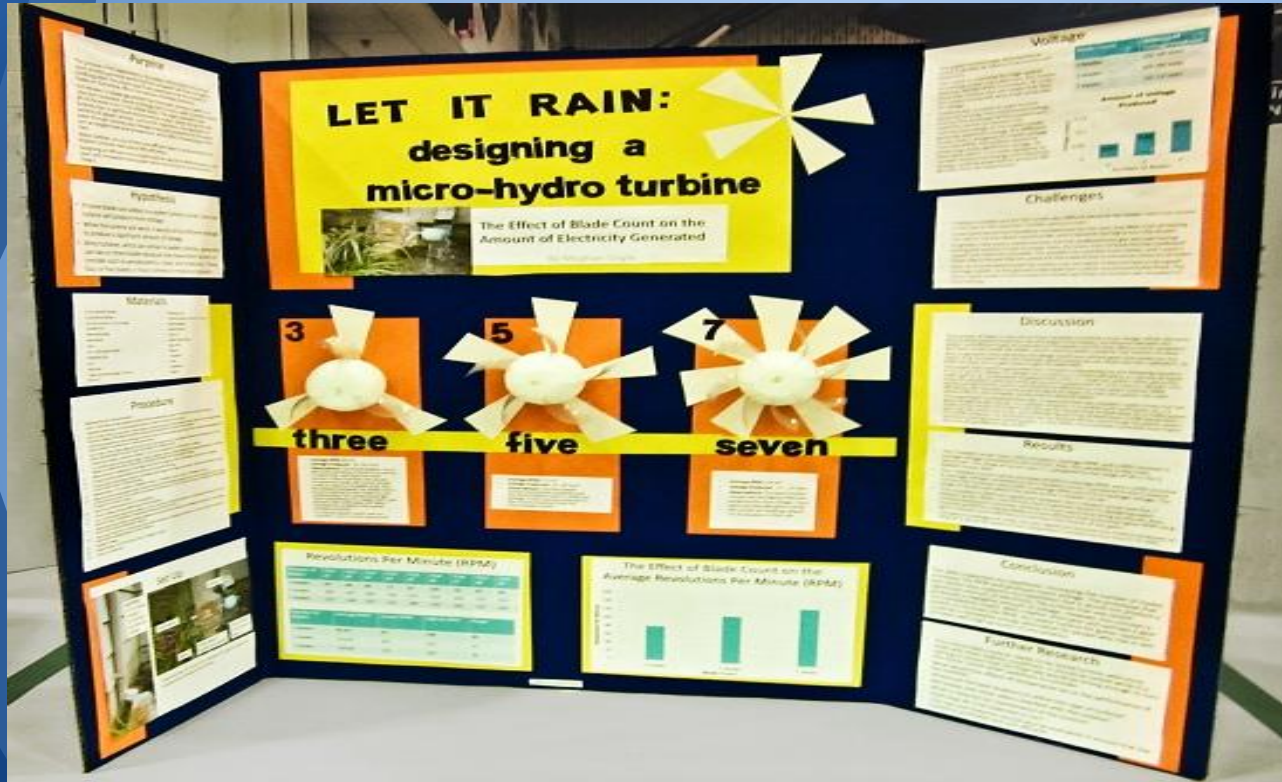
- What happened? Why did it happen?
- Was your Hypothesis TRUE or FALSE?
- A false hypothesis is not a wrong answer! It's ok-  
real scientists test many hypotheses.

## Science Projects- Brain Pop Video

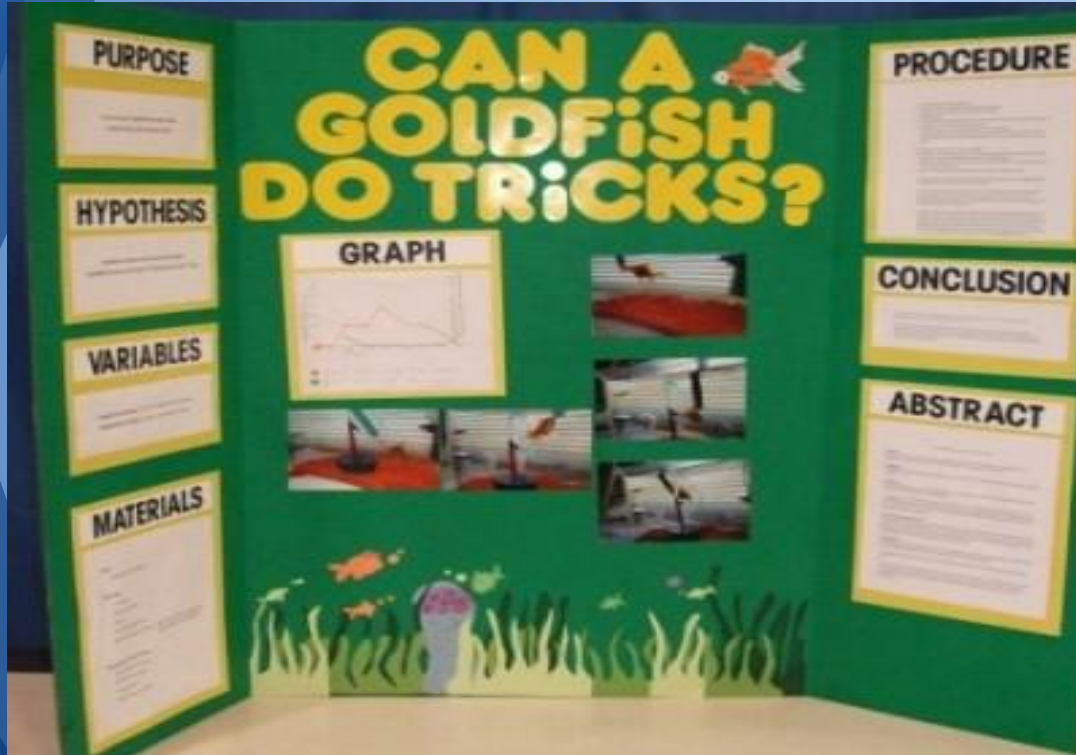
# Sample Display Boards



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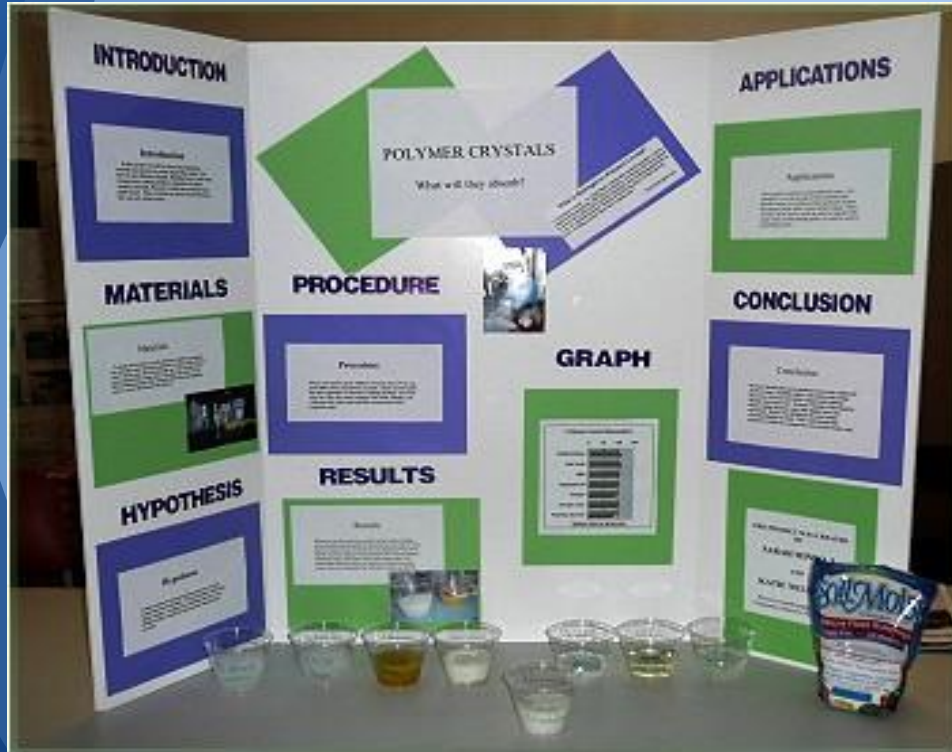


# Sample Display Boards

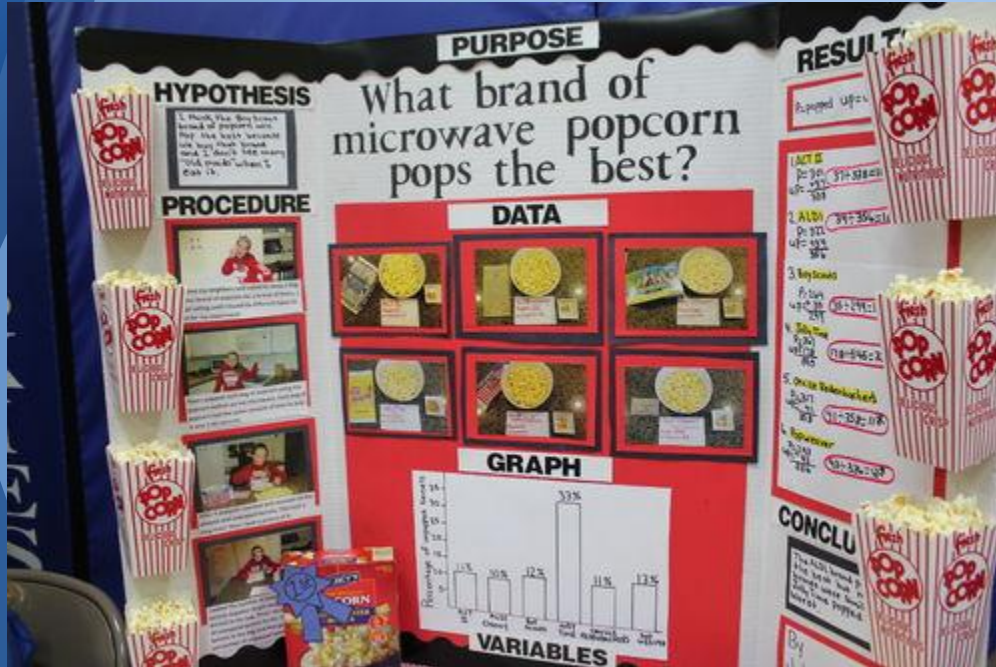




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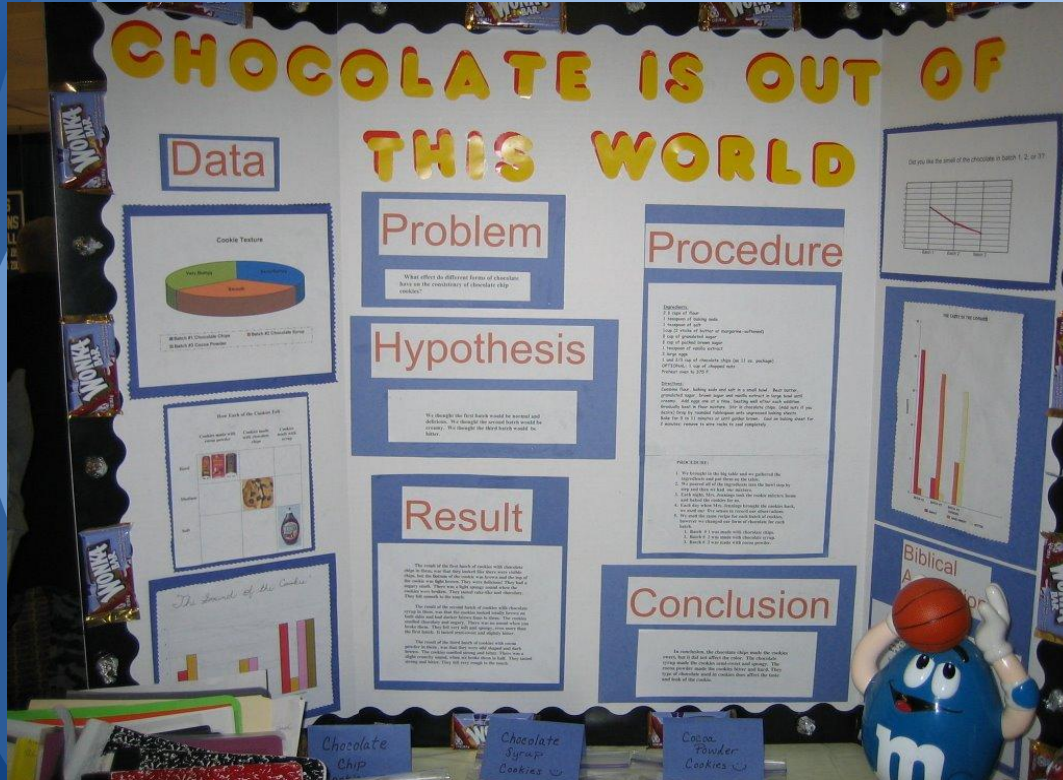


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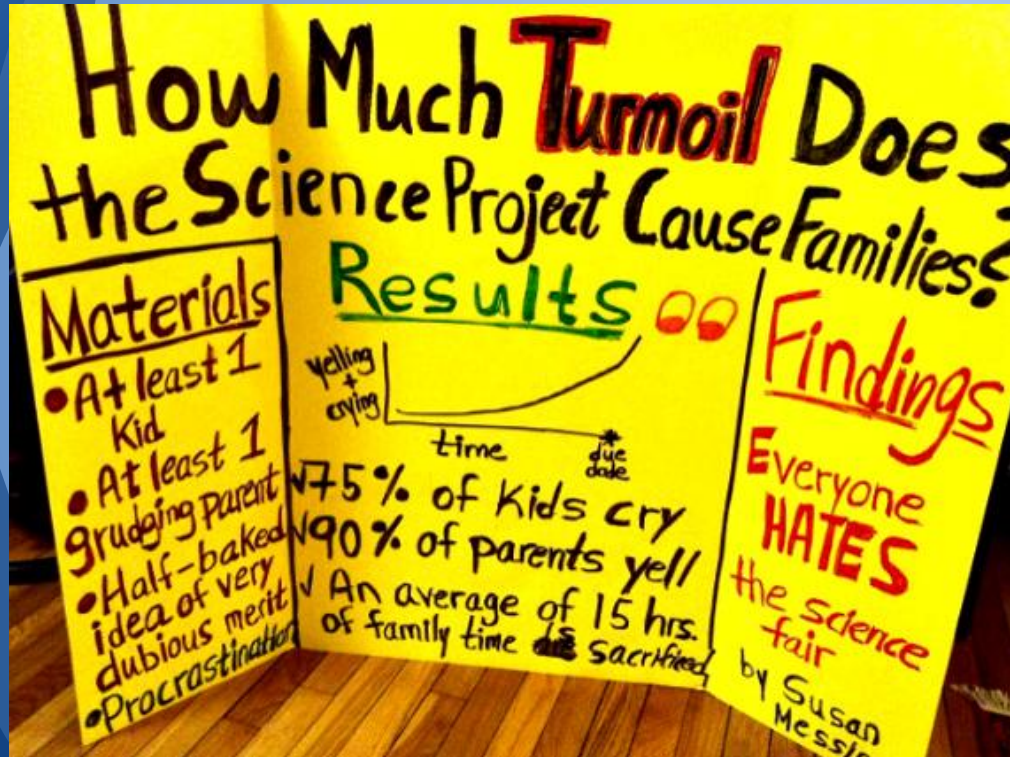




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# Reminders

- Grade Level Appropriate
- Don't wait until the last minute- know your due date!
- Appropriate questions and hypothesis
- Bring materials on Science Night if you can

**WLC Website** [www.wattslearningcenter.org](http://www.wattslearningcenter.org)

4th Grade Science Project