

Science Fair Information

R.N. Fickett Elementary School

2015-16

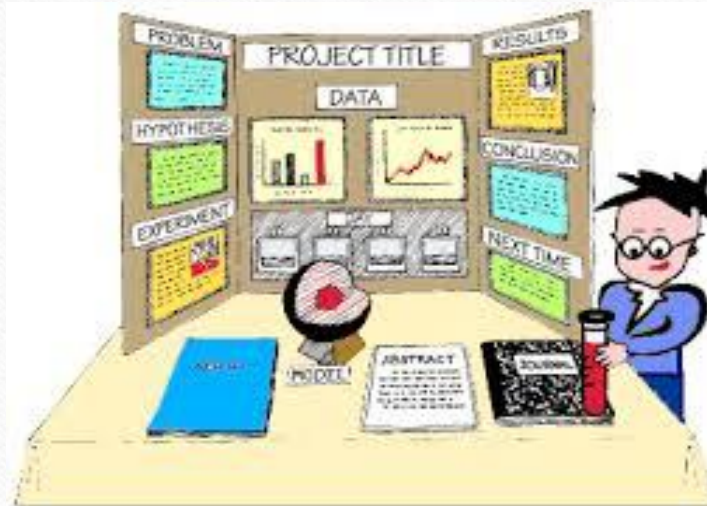
Science Fair: Frequently Asked Questions

- What is a Science Fair Project?
- What are the components of a Science Fair Project?
- How do I help a student complete a Science Fair Project and board?
- What is the timeline for completing and submitting Science Fair Projects?



What is a Science Fair Project?

- A science fair project is a project in which students use the scientific method to complete an experiment. Science Fair Projects are displayed in competitive exhibitions such as schools, school districts, and state competitions.



What are the Components of a Science Fair Project?

- Problem
- Rationale - Purpose
- Hypothesis – Educated Guess
- Procedure
- Data
- Results
- Conclusion
- Research Paper
- Bibliography
- Abstract
- Log Book

Science Fair Board Components

- **Rationale** – The rationale is the purpose or reason for completing the scientific activity.
- **Hypothesis** – the students educated guess of the projects outcome.
- **Procedure** – The method the student will use to complete the project.
- **Data** – Evidence collected from the experiment used to reach the conclusion.
- **Conclusion** – the results of the experiment and suggestions for further research.

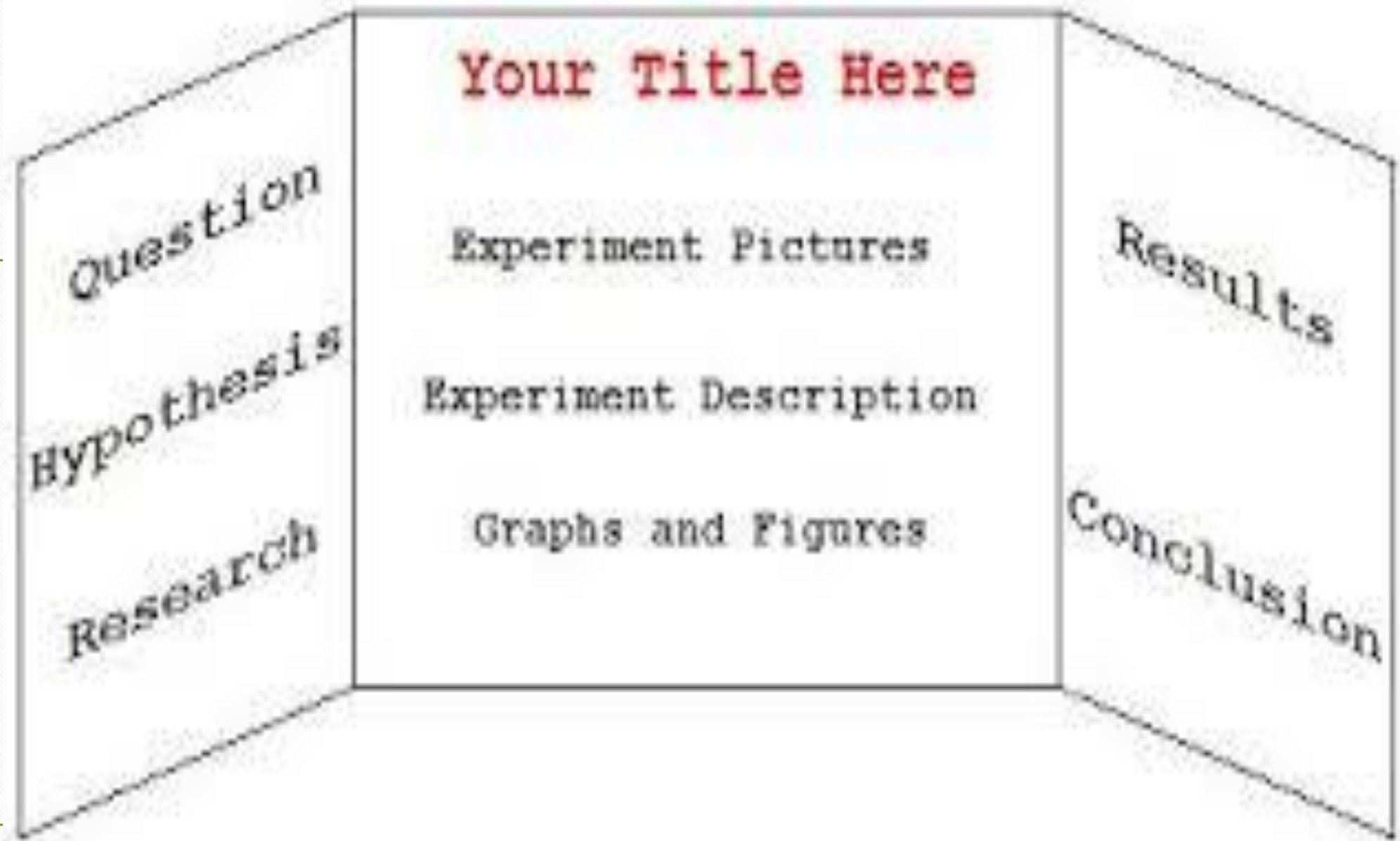
Free Science Fair Boards

- Science Fair Boards will be distributed to the students at the school beginning October 30th at no cost as long as the students can show evidence that they are completing the science experiments at home.



Examples of Science Fair Project Board Designs





PURPOSE

HYPOTHESIS

BACKGROUND

RESEARCH

PROJECT TITLE

ABSTRACT

MATERIALS and PROCEDURES

DATA:
Tables,
Graphs,
Pics

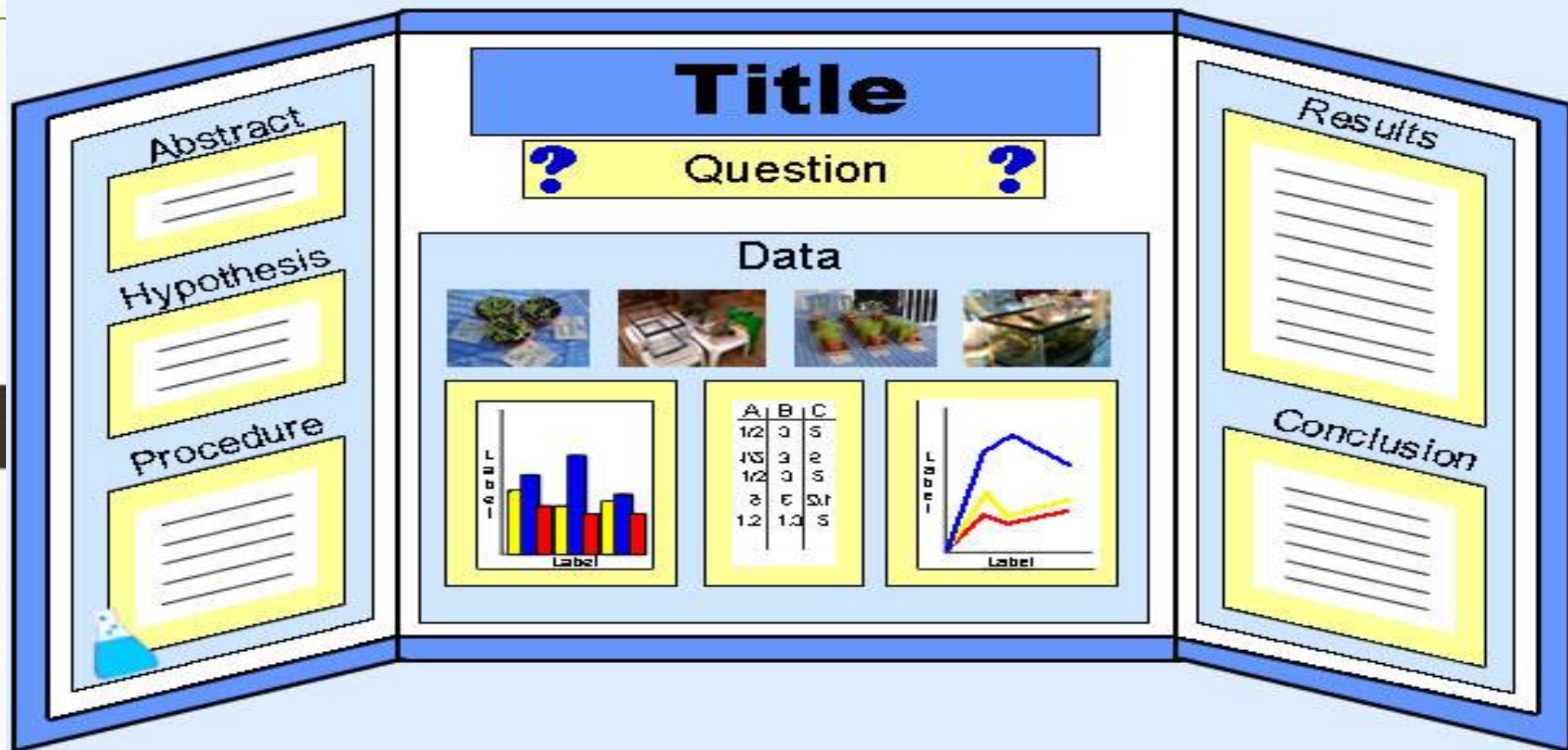
RESULTS

&
DISCUSSION

CONCLUSION

ACKNOWLEDGEMENTS

(if necessary)



The Display Board

Project Titles

Material & Procedures

Purpose

Hypothesis

**Background/
Research**

Results

**Conclusion
& Discussion**

**Data
Charts
Photos
Models**

POPCORN—WHAT BRAND POPS BEST?





Research Plan

A research plan is a report which should be written and approved before any experimentation and should accompany all projects.

- **Research Plan should include:**
- A rationale or purpose for the experiment.
- A hypothesis, research questions, and expected outcomes of the experiment.
- Detailed research methods and conclusions such as procedures, risk and safety, and how the data will be analyzed.
- Bibliography – At least 5 major references.

Log Book

- A notebook which chronicles the experiment.



Abstract

- **Abstract** – No more than 250 words describing the purpose of the experiment, procedure, data, and conclusions. Below is an example:

Abstract:

I wanted to do my project originally about which toothpaste works best to clean teeth, but mouthwash seemed more challenging because not many people use it, and by doing this science project it will show them how important it is. If someone wanted to re-create this science project, it wouldn't be such a problem because all of the materials needed are everyday household items.

Out of all the different types of mouthwash I could choose, I choose Crest and Listerine because they are the top two brands of mouthwash in the market and are competing against who's brand is better.

Relevant Data which cannot be displayed on the Science Fair Board can be displayed with board.



What is the timeline for completing and submitting Science Fair Projects?

Science Fair Due Dates	
Experimentation	October 16, 2015 – November 11, 2015
Science Fair Projects Due	November 12, 2015
Fickett School Based Science Fair	November 19, 2015
Atlanta District School Based Fair	January 26, 2015