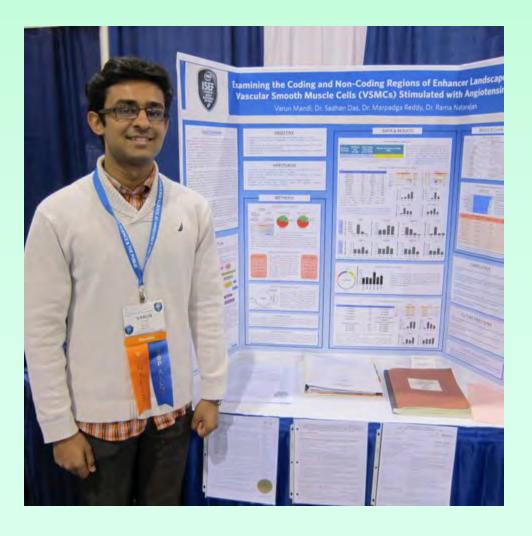
# How to Create Award-winning Displays





# **Mandatory Sections (Sr)**

- Abstract
- Introduction
- Materials &

**Methods** 

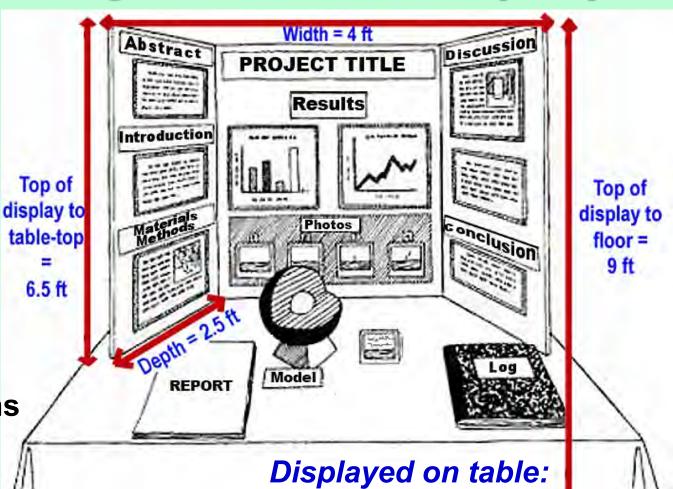
Results

Data Tables

Graphs

Observations

- Discussion
- Conclusion (optional)
- Name/school on back



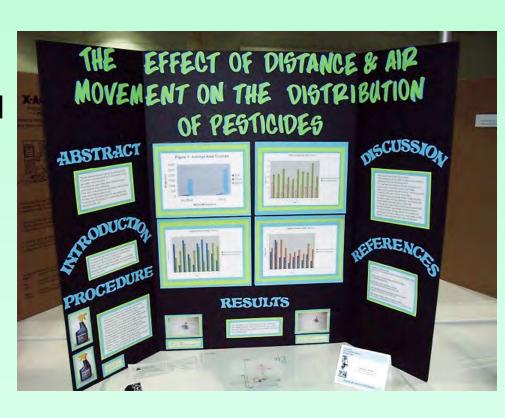
Log Book/Journal

- Research Report w/References
- Acknowledgements (optional)

# **Mandatory Sections (Jr)**

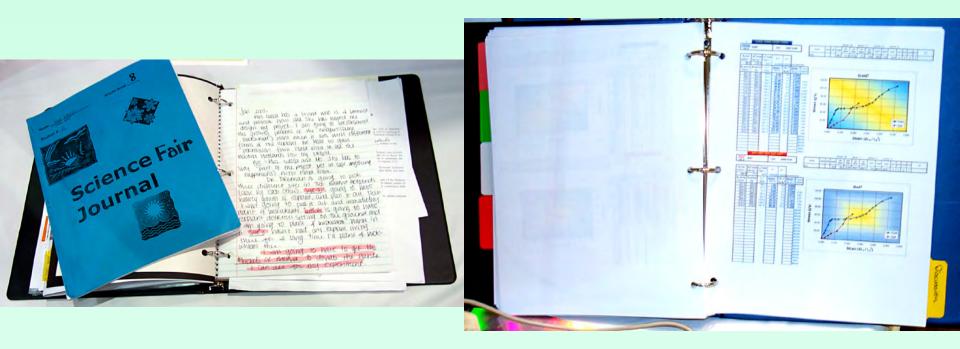
(Jr. Division has more latitude in section titles...)

- Abstract
- Problem & Hypothesis
- Introduction/Background
- Materials & Methods/Procedure)
- Results (Data)
  - Data Tables & Graphs
  - Observations
- Discussion
- Conclusion (optional)
- Acknowledgments (optional)
- Name & school on back
- Displayed on table: Log Book/Journal Research Report w/ references



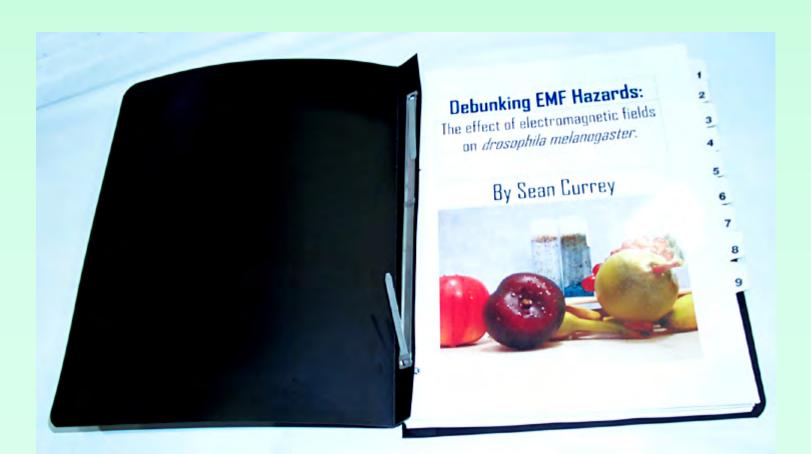
#### Have Your Log Book Present

- A "journal", detailing <u>all</u> activities
- Include actual data collected
- Additional relevant materials



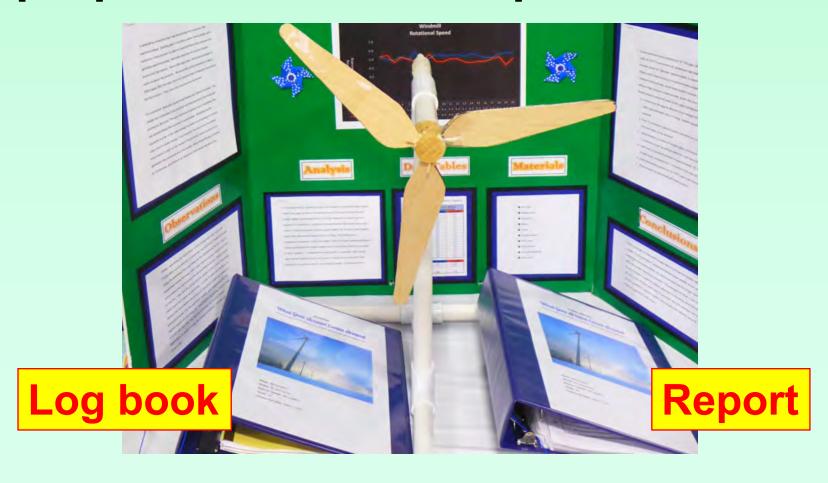
# Include a Formal Report

- ALL reports should be typed
- Follow format and sequence



### **Display All Elements**

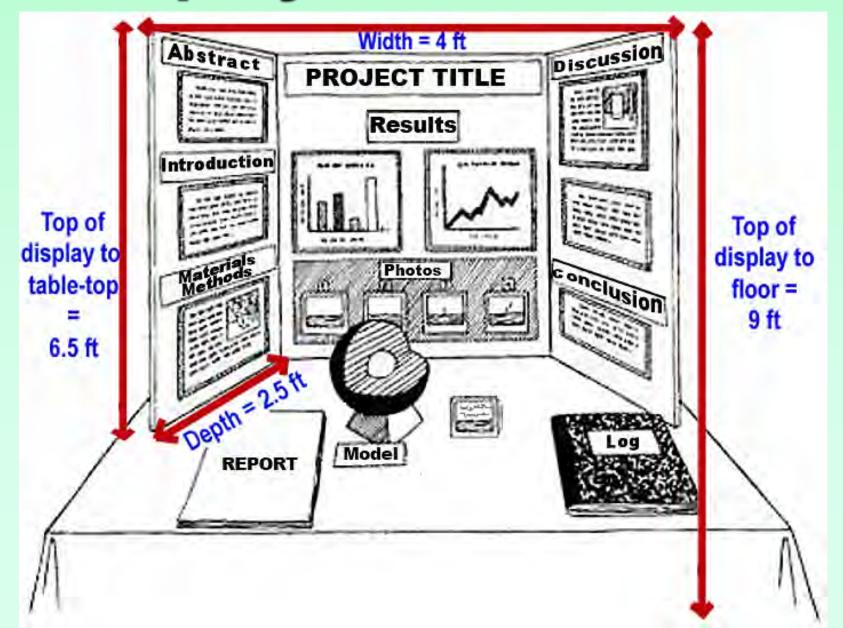
 Log Books/Journals should follow proper format and sequence



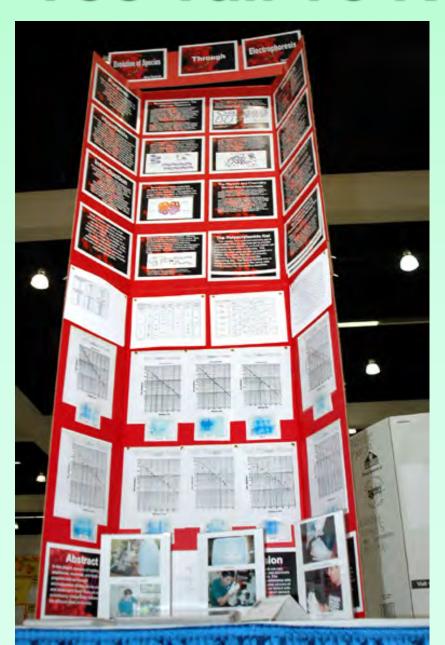
### The Display Board

- Maximum Size:
  - 2.5 ft deep (front to back),
  - 4 ft wide (side to side)
  - 6.5 ft high (project on table)
  - 9 ft high (project on floor)
- 3-sided, hinged
- Must be sturdy, able to stand alone
- Name & School on back

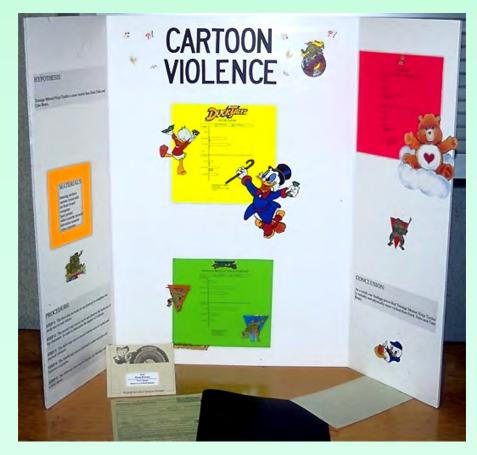
# **Display Board Sizes**



#### **Too Tall To Read**



#### **Too Small**



# **Floor Displays**

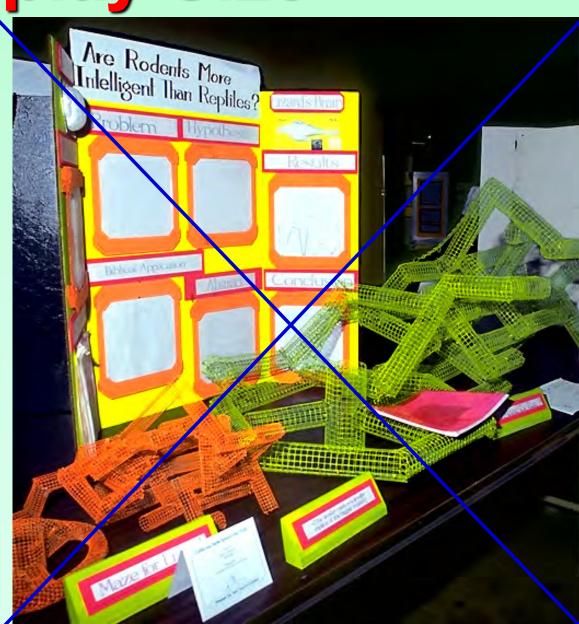
 Must be safe and keep to height requirements



# **Display Size**

- Stay within fair space requirements
  - Board size
  - Table size

You cannot spill over onto another student's project area, even if they are "no shows."



#### Construction

- Display should stand alone
- Pieces should NEVER fall off!

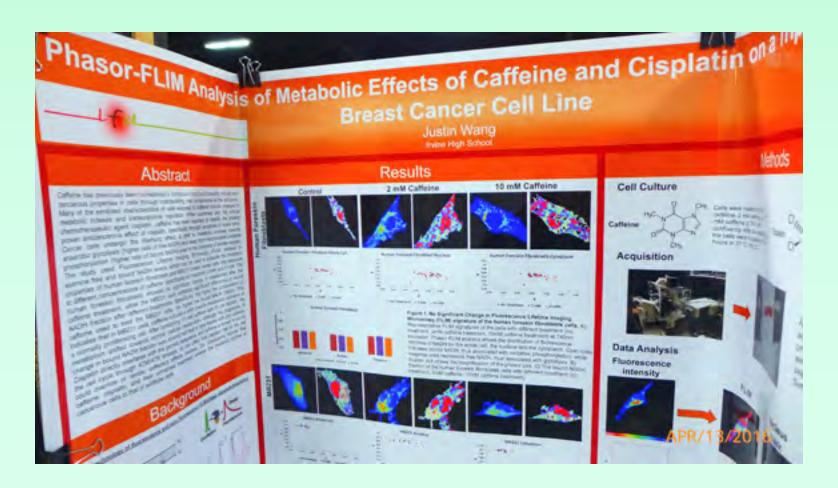


#### **Common Materials**

Foam Core Board

Plywood or particle board

Colored Cardboard



#### **Uncommon Materials**

- PVC Piping
- Lattice Fencing
- Peg-board
- Plastic



# Titling Size & Content

- Main Title: 3+ in
- Subtitles: 2+ in
- Text:
  - -14+ font
  - Bold
  - Concise
  - Understandable

QUESTION

How will atmospheres with carbon dioxide concentrations of 700ppm and 1400ppm affect *Mentha piperita*?

JR exhibit example

#### **HYPOTHESIS**

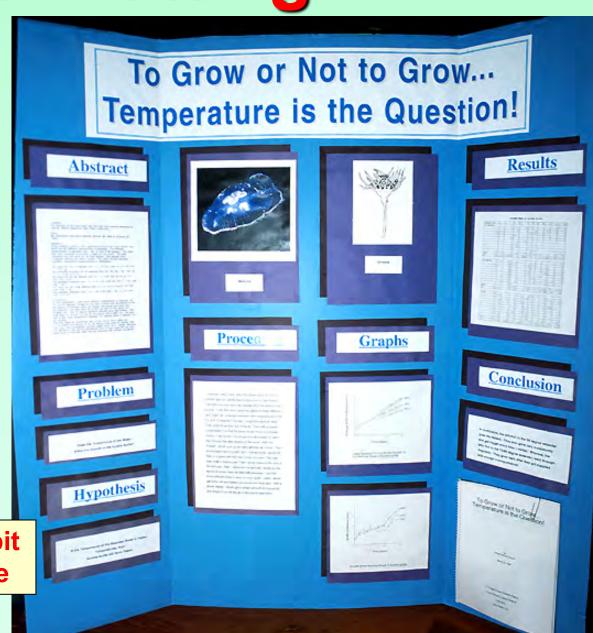
I think that due to the higher amount of carbon dioxide in the atmosphere, the plants will perform photosynthesis at a faster rate thus increasing their growth rates. This, in turn, will make them larger and more plentiful.

# **Formatting**

 Make sure all sections are neatly & clearly displayed

Be concise

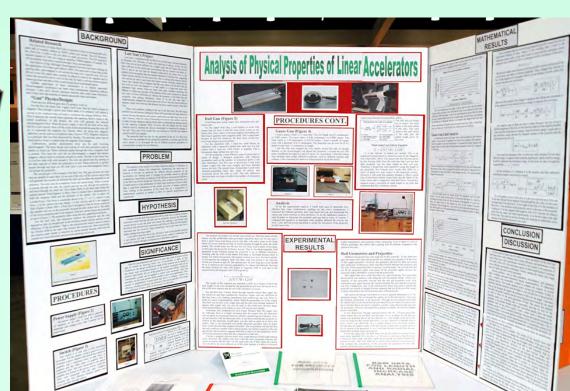
JR exhibit example



#### **Be Selective**

- Don't put EVERYTHING from your report on to the display
- The report is there to read...

Don't <u>over</u>kill

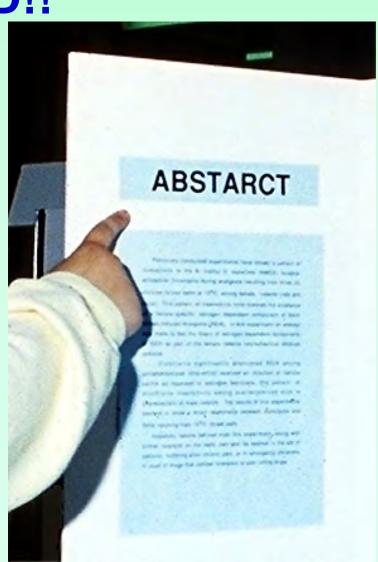


# **Titling and Text**

#### TYPED & PROOFREAD!!

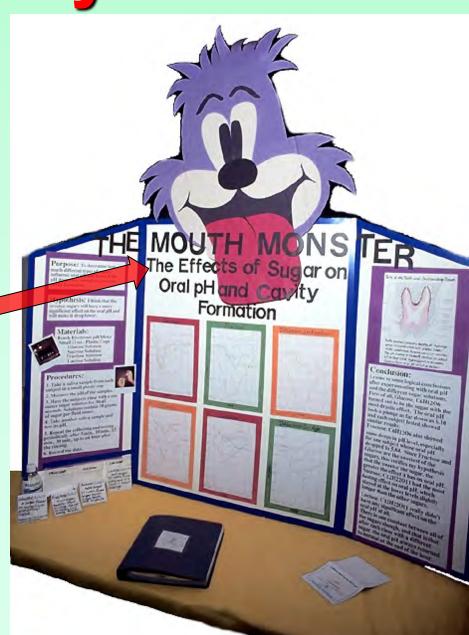
- Spelling counts...
- Neatness counts





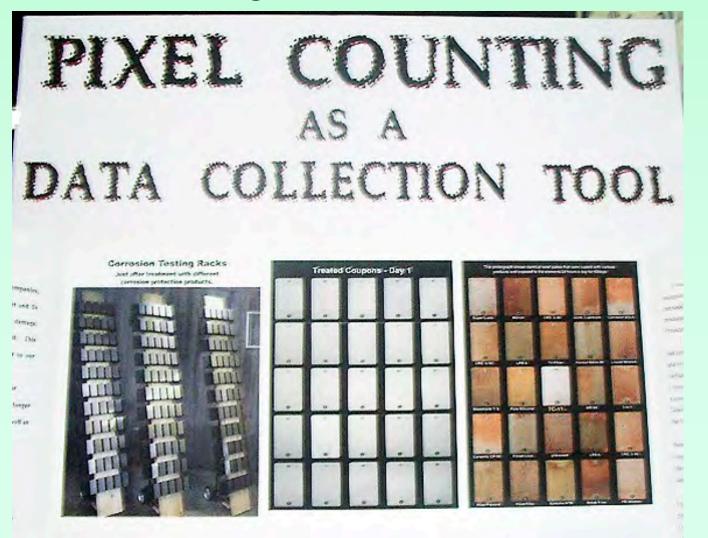
# **Explanatory Title**

- Make sure your title is not confusing
- If necessary, use a sub-title for a clear explanation

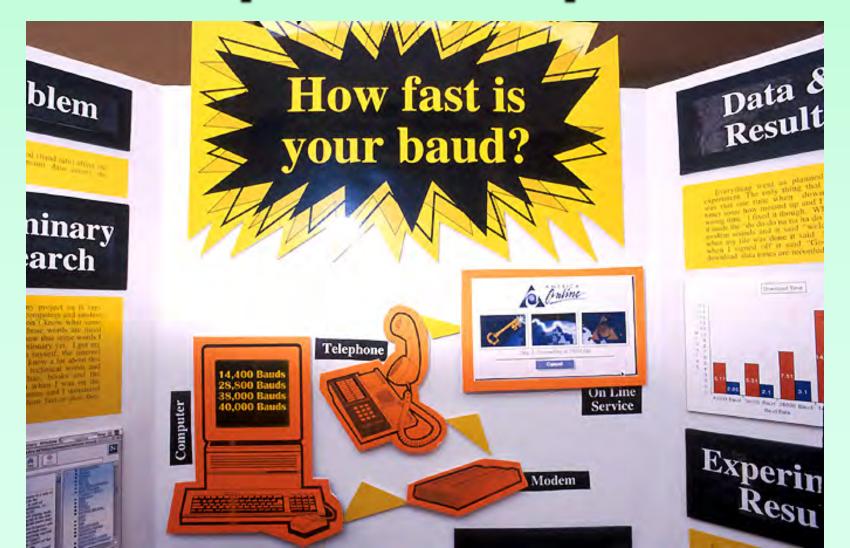


# Titling Enhancement

Use novel way to make titles "pop"



# Extra Foam Core Board & Computer Graphics



# **Graphs and Figures**

Keep Graphs

— Readable

Large

Properly labeled

- Interesting
- Keep data increments comparable



# Use Drawings to Explain Difficult Concepts



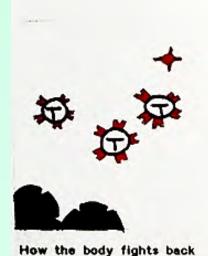
How viruses attack



Virus enters through receptor



Cell begins manufacturing new viruses



B

T cells are produced

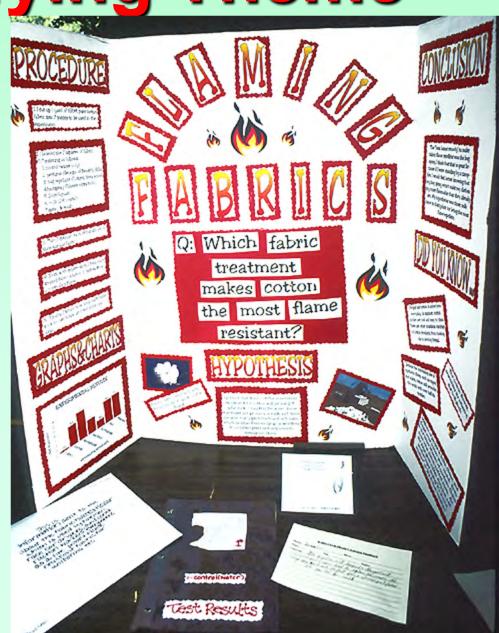
B cells are activated



B cells produce antibodies

Pick a Unifying Theme

 Fonts, background and/or graphics that go with the theme of your project



# Picking a Font

 Don't use extra fancy fonts Project Title

 You want judges to be able to read & focus on your information Project

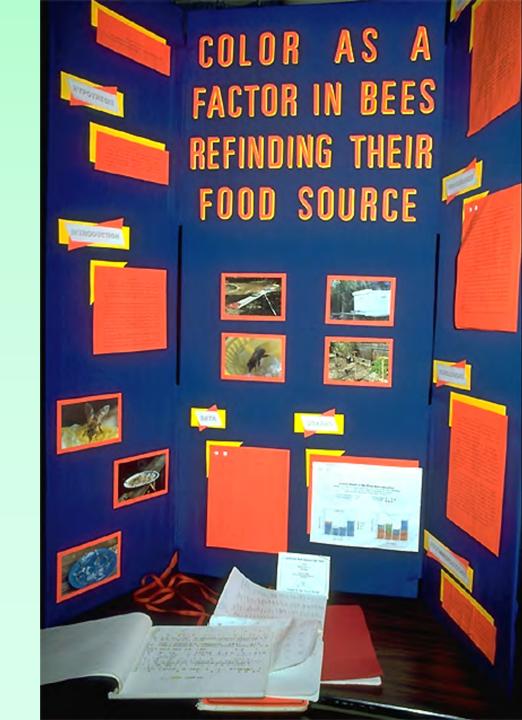
Project Title

Project Title

PROJECT TITLE

#### Color

- Color use tied to the project
- Recommended:
  - No more than3 colors
    - Dominant
    - Accent
    - Background



# Too MUCH Color!

- Your eye doesn't know where to land
- No focal point
- Disturbing



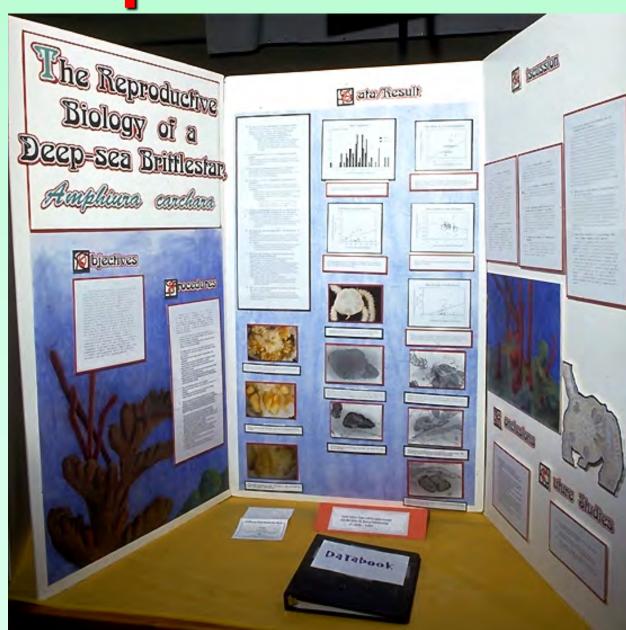
# **Graphics**

Liven up a presentation



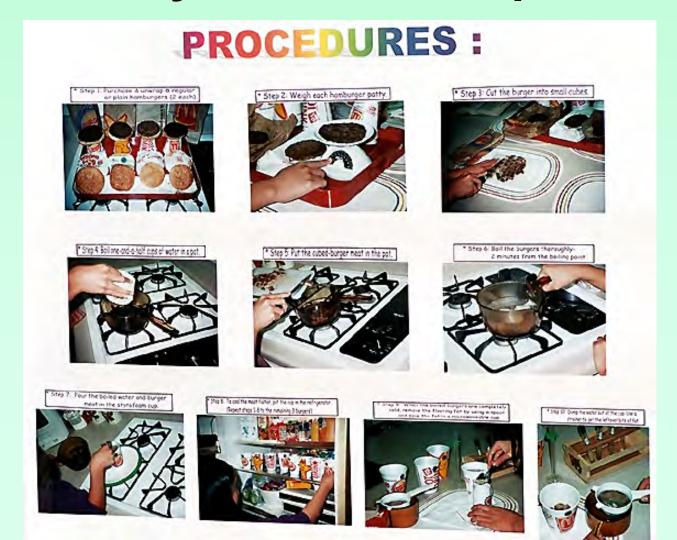
**Graphics** 

Make the display board represent a study site



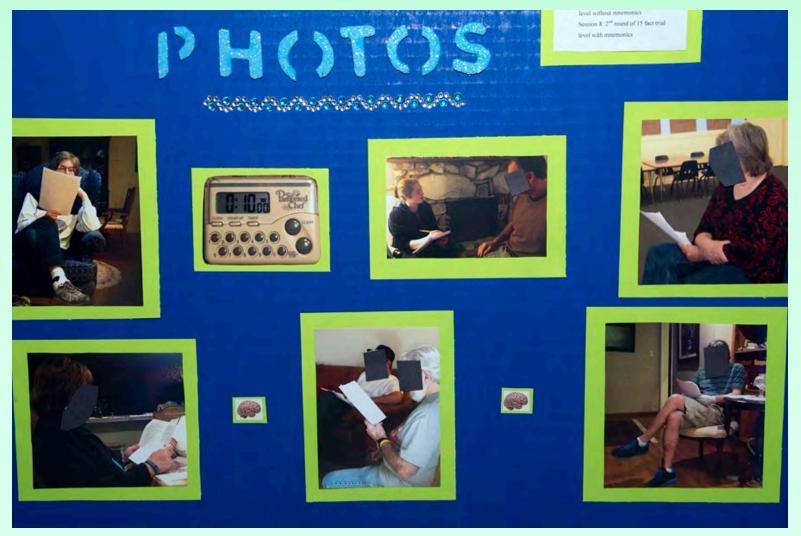
#### **Photos**

Can visually demonstrate procedures



#### **Photos**

Must protect the identity of participants



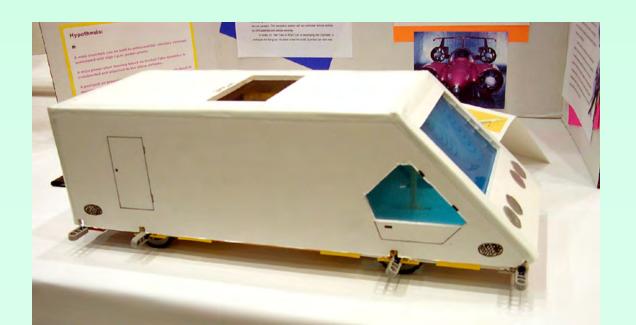
# 3-D Displays

- 3-D Displays are encouraged
- If you can, display the actual equipment you used to test your hypothesis.



### 3-D Displays

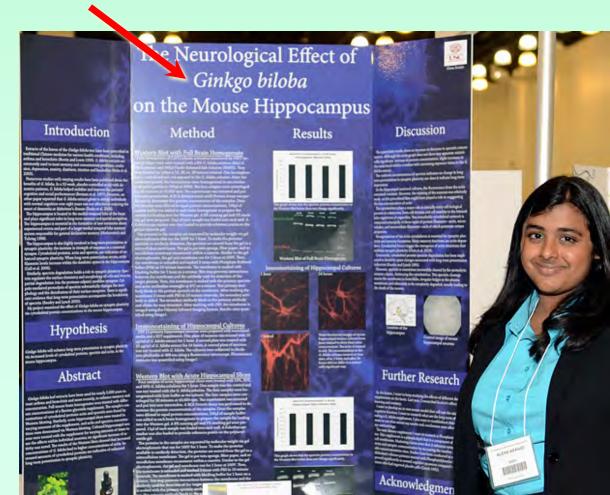
- Should be student-designed
- Directly tied to the project
- Follow rules on what may be displayed



# **Scientific Naming**

 When living organisms are the subject of the study, their SCIENTIFIC NAME should

be displayed on the board at least once (within text); italicized or underlined



# **NO** Live Organisms

 NO living organisms (including plants) can be <u>displayed</u>: use a substitute





#### **DON'TS**

- Don't include living or dead bacteria, viruses or fungi in your display
  - Use photos or models instead



# Display "DON'TS"

- NO LASERS...period
- NO un-insulated electrical devices above 12 Volts
- NO LIQUIDS (as part of the display)
- NO FOOD (as part of the display)









#### **NO** Hazardous Materials

No toxic materials



 No radioactive materials

 No caustic materials (acids, bases)









#### **DON'TS**

 Don't include highly expensive pieces unless you are willing to remove them immediately after the interview



#### **Mechanical Devices**

 Bolt down any devices that could injure someone if it fell or was mishandled.



#### Be Aware...

- Equipment that is small or expensive should be brought to an interview and removed promptly
- We cannot be responsible for easily broken items you leave at your own risk.



#### Remember...

- No matter how fancy & eyecatching the display...
- ★ It can't take the place of solid, well-documented and analyzed research



#### Designed by

#### Anne Maben

Science Consultant, UCLA Science Project
For the



http://www.ocsef.org/

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