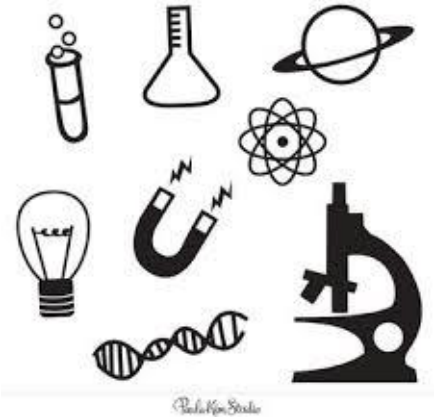
MARY WOODWARD ELEMENTARY SCIENCE FAIR



MONDAY, NOVEMBER 21, 2016 5:30– 7:30PM

The Mary Woodward 20th Annual Science Fair is coming! All students are invited to create projects for the fair. Below is a summary of the dates and times for the fair and related events.

WE ARE MOVING TO A WEB-BASED ENTRY FORM, YOU WILL RECEIVE AN EMAIL INVITATION TO SIGN YOUR STUDENT UP FOR THE SCIENCE FAIR. If you need help please contact Tracy Sandford (503-348-9630) or Judy Swiger (503-332-7002) at mwsciencefair@gmail.com.

Wednesday, September 28	**Science Fair Assembly**
Friday, November 4	**Deadline to enter the Science Fair**
Monday, November 21	**Bring project to school by 1:15pm**
Monday, November 21	**Family viewing of Science Fair 5:30-7:30pm**
Tuesday, November 22	**Classroom viewing of projects 8:20-10:20am**
Tuesday, November 22	**Pick up projects 10:20am-10:40am**

About Science Fair Projects

Science fair projects should show a kind of science, math or technology. The project should represent the student's own ideas and work. Look at:

- chemistry (crystals, pH, slime, glue…),
- physics (magnets, friction, gravity…),
- life science (plants, animals…),
- earth science (weather, rocks…).

There are books in the library with science fair projects.

There are great websites with science fair project ideas:

http://www.sciencebuddies.org/science-fair-projects/project_ideas.shtml
http://www.education.com/science-fair/elementary-school/
http://www.sciencekids.co.nz/projects.html
http://www.tryscience.org/home.html

Science fair projects can be experiments, models, or collections:

- An experiment must have an independent and dependent variable.
- A model represents how something in science works.
- A collection is a display of something found in science (typically nature).

Students should approach their projects scientifically, as in using the scientific process (unless project is a display of a collection). This includes:

- Asking questions and forming hypotheses
- Creating experiments to test those hypotheses
- Organizing data and drawing conclusions

Parents' role is to help guide their student, NOT to do the work. Ask leading questions, rather than providing answers. Encourage your student to keep a record of the process they use in building the project.

Questions? Contact Tracy Sandford (503-348-9630) or Judy Swiger (503-332-7002) at mwsciencefair@gmail.com

Planning Guide (Keep to help with your project)

1) Problem: Ask a question that can be answered by observation, experimentation, demonstration, or collection.

a) "What is the effect of _____ on _____?"
b) "How does _____ affect _____?"
c) "Which _____ (verb) _____?" ("Which bread will grow mold first?")

My Question: _____

2) Hypothesis: State what you think the outcome will be.

Example: "I think the cake without baking soda will be softer."

My Hypothesis: _____

3) Materials and equipment: List the materials needed to do the experiment or observation.

Materials I Need: _____

_____

4) Procedure: List the step by step sequence of exactly what is done.

Example: "#1, I planted seeds in each container. #2, I added soap…"

Sequence I plan to follow: _____

_____

5) Results and Analysis: Make a complete record of the results and/or observations

a) Note any unusual results; mistakes; unexpected results
b) Use graphs and charts, if possible

My Results: _____

_____

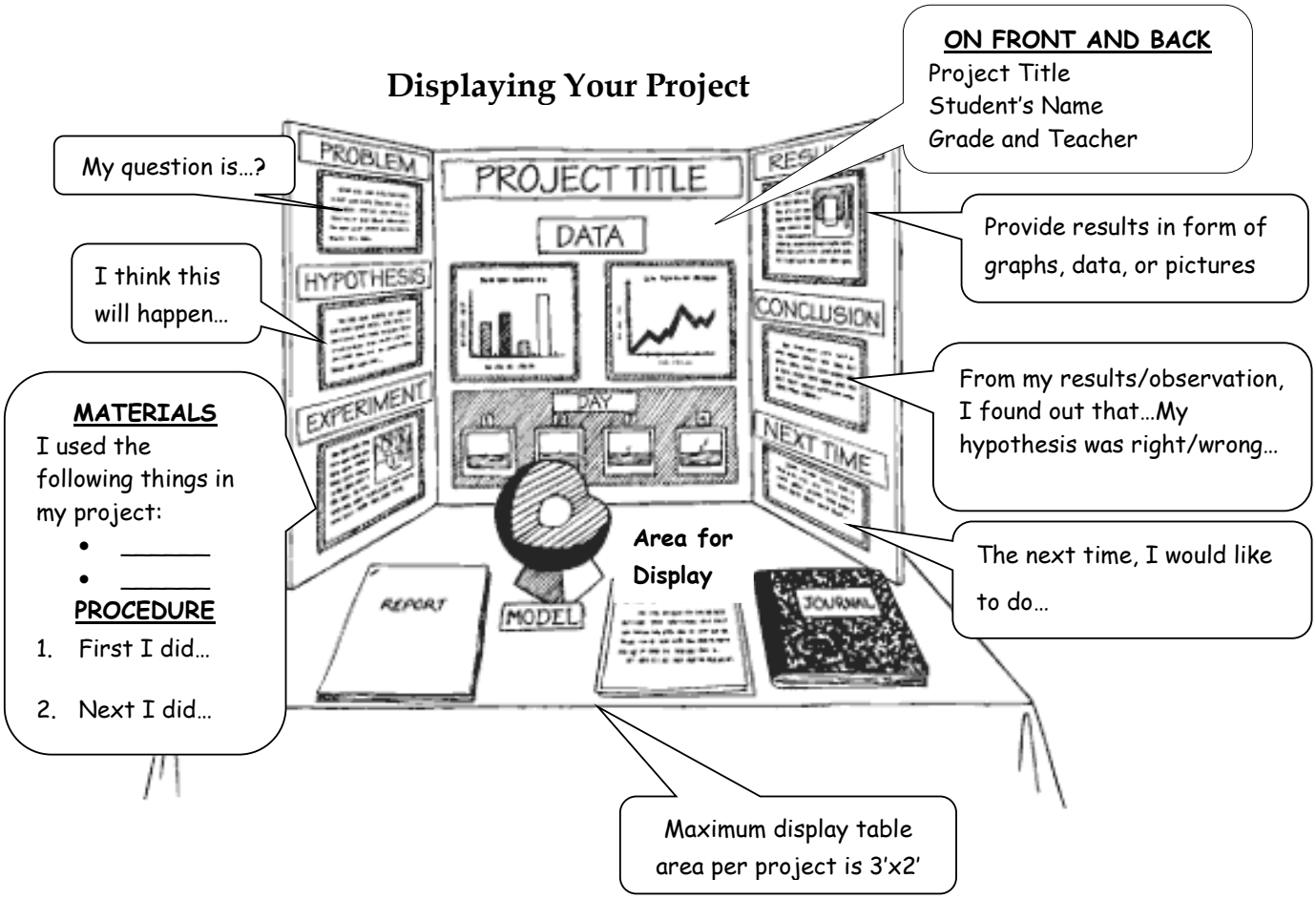
6) Conclusion: Using data from your results, answer the question that you asked above. Was your hypothesis right or wrong?

My Conclusion: _____

7) Recommendations: From everything you learned would you make any recommendations for further research?

My Recommendation: _____

Displaying Your Project



- Each project MUST have a DISPLAY BOARD. You may also display the experiment.
- **Tri-fold self-standing foam or cardboard display boards can be purchased at the Friday morning student store.** They can also be found at art stores, office supply stores, and craft stores such as Michaels.
- Be neat. Correct spelling is important. Use color carefully.
- You MUST have a title for your project.
- You MUST have a hypothesis (a statement of what you think will happen) for your project.
- You MUST include your name, your grade and teacher's name (if working as a group, the name of each person much be displayed).
- The display should briefly summarize the problem, hypothesis, procedures, results and analysis, conclusions, and recommendations for your project.