

# EL MARINO LANGUAGE SCHOOL 22<sup>ND</sup> ANNUAL SCIENCE FAIR Friday May 19, 2017

- ALL STUDENTS ARE INVITED TO PARTICIPATE IN THE SCIENCE FAIR. PARTICIPATION IS OPTIONAL FOR ALL GRADES.
- WORK ALONE OR IN GROUPS (with friends or siblings).
- DISPLAY YOUR PROJECT IN THE CAFETORIUM during the day of the Fair. Students will be touring the Fair with their classrooms.
- INVITE YOUR PARENTS TO THE EVENING SCIENCE FAIR: 6-8 pm. Showcase your work and enjoy hands-on science demos, food, and fun.
- READ THE SAFETY RULES IN THIS HANDOUT AND RETURN THE REGISTRATION FORM.
- 4<sup>TH</sup> AND 5<sup>TH</sup> GRADE TEACHER STATEMENT:  
Participation is not mandatory, but is strongly recommended. A student's participation shows self-initiative that exceeds regular class expectations. This self-initiative will be reflected in the student's science grade. Check with your teacher if you have questions.
- START NOW. A good display takes time, thought, and effort.
- IT IS OK to have your parents involved to think about ideas or oversee your activities, but remember this should be YOUR project. 😊
- HAVE FUN WITH SCIENCE!

**Please return the participant registration form located at the end of this package to your teacher by Friday May 12, 2017.**

# PLANNING YOUR SCIENCE PROJECT

## A GOOD SCIENCE PROJECTS BEGIN WITH A QUESTION.....

- Why are there phases of the moon?
- What is the best way to heat water using just sunlight?
- What are the effects of pollution?
- How does a volcano erupt?
- Why does a motor have a magnet?
- What type of wings makes a paper airplane fly the farthest?
- Why do objects float in water?
- What do plants need to grow?

## CAN'T THINK OF A QUESTION? HERE ARE SOME IDEA STARTERS

- **Websites:** [www.education.com/science-fair/](http://www.education.com/science-fair/), [www.sciencebuddies.org](http://www.sciencebuddies.org), [www.sciencenewsforkids.org](http://www.sciencenewsforkids.org), [www.sciencefairadventure.com](http://www.sciencefairadventure.com)
- **Libraries:** Contact the school or local librarian for books containing science demonstrations, projects, and experiments.
- **California Science Center:** This local museum offers inspiring exhibits. Take a tour and develop ideas that you can explore as a project. [www.californiasciencecenter.org](http://www.californiasciencecenter.org)

## MANDATORY ETHICS AND SAFETY RULES

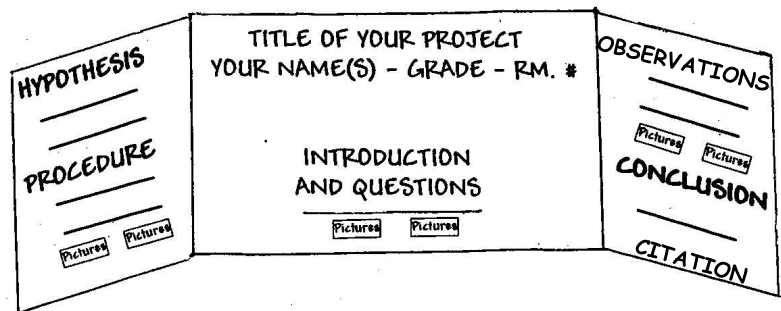
1. Projects should not cause harm or stress to animals or humans.
2. No live animals at the fair.
3. No body parts (except teeth, hair, and nails) should be displayed.
4. No use of bacteria, drugs, or alcohol.
5. No open fires or flames.
6. No use of dangerous or combustible chemicals (including rocket engine fuel).
7. **ALL LIQUID OR POWDERED SUBSTANCES (INCLUDING HOUSEHOLD OR KITCHEN ITEMS) MUST BE CLEARLY LABELED AND IN CLOSED PLASTIC CONTAINERS.**
8. Projects using electricity must conform to standard wiring practices and have components secured to a piece of plywood, if they are brought to school.
9. Projects using electrical outlets may not be plugged in at school.
10. **NO GLASS.** Use alternative containers, such as plastic ones.

## USE THE SCIENTIFIC METHOD FOR CONDUCTING AN EXPERIMENT

1. **Question:** What are you curious about? What have you seen that makes you wonder?
2. **Hypothesis:** Make a guess as to what you think is the answer to your question. What might be the reason for your observation? Explain why that is your guess.
3. **Procedure and Materials:** What will you do to test your predictions? Write an ordered list of all the steps you will take, from beginning to end, to conduct your experiment. Include a list of materials. Modify the lists and take notes as you go along. You may be pleasantly surprised at how much was needed to do your work!
4. **Observations:** Write down what you saw happen while you conducted your experiment. Sometimes things happen that you did not think would occur! Use charts, tables, or graphs. Document with photographs or drawings.
5. **Conclusion:** What happened? Did your hypothesis describe what happened? Did something happen you didn't expect? What did you learn?

## DISPLAY GUIDELINES

1. Please limit the size of your display to:  
**30" wide, 32" high, 16" deep**  
Use a standard board or cut up a cardboard box.



2. Show how you used the scientific method for your project. A good display is aesthetically appealing. It explains what you did and what you learned.
3. Include the **title, names of all students and grade(s), hypothesis, list of materials used, procedure, observations, conclusion, and citation** of the resource where you got your idea.
4. Pictures and graphics can help make your display more interesting to view and easier to understand. You may want to use drawings, pictures and/or photographs. You may also want to use charts, graphs, or tables to show your results.
5. If you place a demonstration, model, or other materials in front of your display board make sure to cover the items or secure them to a base. You won't want them to go missing!
6. Please leave valuable items at home. Represent them instead with drawings or photos.

Save the Date!

## SCIENCE FAIR: Friday MAY 19<sup>TH</sup>

### GUIDELINES

Projects should be brought to the school cafetorium between 8:00am and 8:40am on Friday, May 19<sup>th</sup>. You will be shown where to display your project.

Projects on display may get moved in order to make room for all displays. Please make your project easy to move.

Projects **must be taken home** after the family viewing session Friday evening. Projects may not be left over the weekend.

### Student Viewing

9 am to 3 pm

### Family Viewing and Hands-on Activities Fair

6 pm to 8 pm

### QUESTIONS

Please contact your teacher or the PTA Science Fair Committee

Erika Von Euw: [erivoneuw@hotmail.com](mailto:erivoneuw@hotmail.com)

Wendy Ruggeri: [wendyruggerimd@gmail.com](mailto:wendyruggerimd@gmail.com)