

Richboro Elementary Science Fair Announcement

Dear Boys and Girls:

November 2011

Did you participate in last year's Science Fair? Would you like to take part in this year's Fair? If so, fill in the bottom portion of this letter and return it to your teacher by **Wednesday January 4th**. We will provide you with a display board for your project. A *Science Fair Project Information Packet* is on the Richboro Elementary PTO (RSA) web page.

The Science Fair is set for **Tuesday, January 31st**. So don't delay! Start thinking about what you want to do. Some ideas for projects are included in the information packet.

Thank you for participating in this year's Richboro Elementary Science Fair!

-----Detach here and return bottom portion to your classroom teacher by **January 4th** -----

Richboro Elem. Science Fair Registration

Scientist Name(s): _____ Grade: _____ Teacher: _____

Type of Project: (Check one)

Individual Student Family Student group (up to 3) Student picking up board is _____

My child will be participating in this year's RSA Science Fair _____
Parent email _____ (Parents: Please check and sign! Thanks!)

Display board will be picked up in the cafeteria on the following date and time:

December 21st 3:40pm **January 4th** 8:45am-9:10am **January 5th** 3:40pm

* Please note: Erupting volcanoes will not be permitted.

RICHBORO ELEMENTARY SCIENCE FAIR 2012 INFORMATIONAL PACKET



Dear Students:

November 2011

Thank you for expressing interest in participating in Richboro Elementary's 2012 Science Fair. You will find in this packet the following:

1. Information on how to set up your display.
2. A list of Science Fair project/experiment ideas.
3. A *Science Project Checklist* to help you stay on task.

Please review all of the above information as well as the following details:

1) Projects must be labeled as:

- Individual Student Project (almost all work is completed by the student)
- Family Project (other family members help to create the project)
- Group Student Project (project is completed by up to three students.)

2) Display boards are provided by the RSA. Please check dates and times for distribution, as they cannot go home on the bus.

3) Science Displays are to be set up in our school's gym on Monday, **January 30th** from 6:00pm to 8:00 pm.

4) Science Fair Committee members will assist you.

5) The Science Fair will be open for "Grandparent Hour" on Tuesday **January 31st** from 9:30 to 10:30 am. Members of the retirement community are invited to attend.

6) Classes will visit the Science Fair throughout the day on **January 31st**.

7) The Science Fair will be open to our School Community on Tuesday Evening,
January 31st, from 6:30 to 8:00 pm.

8) ALL Science Fair Displays must be removed from school by 8:00 pm, Tuesday January 31st.

Thank you!
The RSA Science Fair Committee

Richboro Elementary Science Fair Project Checklist 2012

Name(s): _____ Grade(s): _____

Title of Project: _____

Check It Off!	Date	Procedure	Notes	
<input type="checkbox"/>	Dec 21- Jan 5	Collect your presentation board.		
		Date	Time	
		12/21	3:40pm	
		1/4	8:45am-9:10am	
		1/5	3:40pm	
*One board per group				
<input type="checkbox"/>	Thursday Jan 6	<input type="checkbox"/> Begin your experiment or project and record your observations. <input type="checkbox"/> Begin work on your display. * Remember to put all student names on the front of the display board!		
<input type="checkbox"/>	Mon. Jan 30	Set up your project /experiment in school gym. 6:00pm-8:00pm		
<input type="checkbox"/>	Tue Jan 31	Richboro Elementary Science Fair 6:30pm-8:00pm		
			* Remove Displays on Tues 1/31 by 8:00 pm.	

Display

Once you have completed your investigations and have done your research, you are ready for your last step: setting up your display. Below is a sketch of a display that could accompany your project. The three-way backboard will be given to you by the Science Fair coordinators on the specified dates and times.


Be sure that your backboard states your title, your hypothesis, your results and your conclusions for easy reading by the observer. Also, include your report and your research notes as part of your display. Most importantly, remember to display your name, grade, and teacher.

Problem/ Purpose
State the problem you meant to solve.

Project Title
by
Your Name

Results
What did you learn from your work?
Explain your data.

Hypothesis
State your hypothesis.

Data & Graphics

Display your data and pictures in this area.
Graphics are very effective for explaining results.

Conclusions
Was your hypothesis right or wrong? Can you make a new one?

Procedures
Explain the experiments you did.
What? How? Why?

Recommendations
From what you learned, would you try anything new?

~~ Science Fair Board Layout ~~
Experimental Project

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Project Ideas

Magnetic and nonmagnetic materials

Which magnet is strongest?

Which materials conduct electricity best?

Which materials conduct heat best?

Sounds from different rubber bands (or glasses of water)

Which toy car rolls furthest?

Which materials dissolve in water?

Which paper towel absorbs the most water?

Will an ice cube melt faster when crushed?

Do coins corrode more in salt or fresh water?

How vinegar affects eggshells

How a shadow changes throughout the day

Measuring rainfall with a rain gauge

Depth of snow at 10 different locations

Testing a sundial with a clock

Which brand of raisin bran has the most raisins?

What a plant needs to grow

Do plants prefer tap water or distilled water?

How temperature affects plant growth

Do plants give off water?

In which soil do plants grow best?

Growing potatoes at different locations

How fast do kidney beans grow?

Do large apples have more seed than small ones?

Do different kinds of apples have different amount of seeds?

What conditions do pill bugs prefer (light or dark, moist or dry)?

Can an earthworm detect light and darkness?

How far does a mealworm or snail travel in one minute?

Which color liquid do hummingbirds prefer?

What food does a hamster prefer?

Can people identify flavors of Kool-aid when blindfolded?

Safety Rules

1. All experiments using vertebrate animals or humans as subjects should cause no harm or undue stress to the subject. These projects should have written approval from the science fair committee and/or a veterinarian before beginning the experiment.
2. No live vertebrate animals should be exhibited at the Science Fair (models, stuffed animals or photographs should be used instead). Exceptions may be granted with special permission.
3. No human body parts should be displayed. Exceptions are teeth, hair, and nails.
4. Students should avoid doing experiments involving bacteria cultures. **(No Molds)**
5. No controlled substances shall be exhibited.
6. No dangerous or combustible chemicals shall be displayed at the Science Fair. Rockets or engines must not contain fuel. All chemicals displayed should have the contents clearly marked on the container. **(No Volcanoes)**
7. No open flames will be permitted at the school.
8. Student experimenters shall wear safety goggles (eye protection) and follow standard safety practices when working with fire, hot liquids or caustic chemicals. Parent approval and supervision will be required for these projects.
9. All projects using household electricity must conform to standard wiring practices and safety.
10. Expensive or fragile items should not be displayed. Valuable items essential to the project should be simulated or photographed.
11. Collections (i.e. minerals, shells, feathers, etc.) should be protected with a suitable covering.
12. Items to be displayed in front of backboard shall be adequately secured (i.e. batteries, wire, switch and motor - secure to a piece of plywood and place in front of backboard).
13. Carefully pack all materials when transporting to and from the Science Fair.