Dear Boys and Girls:

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.
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: ____________________________________________

<table>
<thead>
<tr>
<th>Check It Off!</th>
<th>Date</th>
<th>Procedure</th>
<th>Notes</th>
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<tbody>
<tr>
<td></td>
<td>Dec 21-Jan 5</td>
<td>Collect your presentation board.</td>
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<td>Date</td>
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<td>*One board per group</td>
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<td>Thursday</td>
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<td></td>
<td>Jan 6</td>
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<td>Begin your experiment or project and record your observations.</td>
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<td>Begin work on your display.</td>
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<td>* Remember to put all student names on the front of the display board!</td>
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<td>Mon.</td>
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<td>Set up your project/experiment in school gym.</td>
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<td>Jan 30</td>
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<td>Tue</td>
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<td>Richboro Elementary Science Fair</td>
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<td>Jan 31</td>
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<td>6:30pm-8:00pm</td>
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<td>* Remove Displays on Tues 1/31 by 8:00 pm.</td>
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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.
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 fastest 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 of 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.