

**BUCKINGHAM ELEMENTARY SCHOOL PTO
2010 SCIENCE FAIR APPLICATION**

The Buckingham Elementary School Science Fair will be held on Thursday, May 6, 2010 and Friday, May 7, 2010. If you would like to submit a project, **please return this application to the office NO LATER THAN April 16, 2010.**

Please note: If you do not submit this application, there will be no space for your project at the fair. **If entering a combined project, each student MUST SUBMIT A SEPARATE APPLICATION.** If entering a class project, only one application is necessary.

*******Note: Additional information will be on the website*******

Please **PRINT CLEARLY**:

Name: _____ Grade: _____ Teacher: _____

I am submitting:

_____ An individual project

_____ A combined project – 2 students (Please write your partner's name below)

_____ A class project

My partner is: _____ Grade: _____ Teacher: _____

Project Title: _____ (optional: when signing in-we will check title)

Brief Description of Project:

I give my child permission to be a part of the Buckingham Elementary School PTO Science Fair. **I HAVE READ THE RULES with my child on the Buckingham Elementary School website under PTO flyers** and I will assist and supervise where appropriate. If a printed copy is needed, please pick one up at the office.

(Parent's Printed Name) (Parent's Signature) (Phone Number/E-mail address)

If you have any questions, please contact Carol Cope at [215-794-2326](tel:215-794-2326)/ragtopsix@verizon.net, Mrs. Viel at [267-893-4200](tel:267-893-4200)/lviel@cbsd.org, or Mr. Radcliff at [267-893-4200](tel:267-893-4200)/jradcliff@cbsd.org.

I have read and understand the rules and would like to submit a project.

(Student's signature)

Show your support for your child and volunteer to help out. Volunteers are appreciated.

_____ I am available to volunteer to:

_____ Set up _____ Provide refreshments _____ Work Refreshment Table _____ Clean up

BUCKINGHAM ELEMENTARY SCHOOL PTO 2010 SCIENCE FAIR

The Buckingham Elementary School PTO is sponsoring a Science Fair on Thursday, May 6, 2010 and Friday, May 7, 2010. We invite everyone in grades kindergarten through sixth grade to participate. Projects may be completed by individuals, student teams (limited to 2), or as a class. Classes will be welcome to visit the Fair during school hours, and parents and friends are invited to visit on May 6, 2010, from 7:00 p.m. to 8:30 p.m.

WHY SHOULD STUDENTS GET INVOLVED IN A SCIENCE FAIR?

Science is considered a branch of knowledge that systematizes facts, principles and methods. It is knowledge derived from observation and study. Projects provide students who perhaps would not get the recognition on tests or traditional writing assignments with an opportunity to increase their self-esteem. It creates an opportunity for students to work with friends and/or family members to create or investigate something that is meaningful to them. Finally, we hope it will extend their learning and be a lot of fun. We would like to encourage all students to consider participating in our annual Science Fair.

STEPS TO PREPARE A SCIENCE PROJECT

1. Select a topic. The Internet (google: Science Fair projects) and the library are great sources of ideas. Remember a Science Fair project is a test or investigation to find an answer to a question, not just to show what you know about something. What question do you want to know the answer to?
2. Gather background information. Gather information about your topic from books, magazines, the Internet and people with knowledge about the topic you are interested in. This also includes surveys! Keep notes of where you get your information.
3. Make a schedule. It takes time to visit the library, buy supplies and record information.
4. Construct an exhibit or display. It has to be neat, but it does not have to be typed. Make it fun, but be sure people can understand what you did. Tri-fold poster board works well to display your information.
5. Experimentation, creativity, and discovery are encouraged.
6. Practice presenting it. Practice explaining your project to someone. **YOU WILL HAVE AN OPPORTUNITY TO PRESENT YOUR PROJECT TO YOUR CLASS.**
7. If your project doesn't turn out the way you expected it to, it is still a Science Fair project. We still want your project at the fair.
8. Come to the fair, feel proud of your accomplishment and learn something from your fellow students. Most of all have fun! See you there.

RULES AND REGULATIONS

1. Projects may be submitted by individuals, groups of two, or as a class. **Project application forms must be signed and returned by April 16, 2010.**
2. The projects should not be larger than 3 feet by 3 feet. They may be posters, graphs, models, dioramas or experiments.
3. Students should construct their projects so that wall space is not necessary; use self-supporting boards of some kind. Tri-fold poster boards are recommended.
4. **NO ELECTRICAL OUTLET USE IS AVAILABLE.**

5. No running water is available.
6. **All project work must be done by students (parental guidance and support are encouraged).**
7. **A Scientific Method Form or KWL Chart must accompany each project.**
Examples of these forms are shown below. It is up to you to decide which one is appropriate for your project.
8. No animals.
9. **MOLDS AND LIQUIDS MUST BE SECURELY COVERED AT ALL TIMES.**
10. Push buttons and levers must be mounted securely on exhibits; they cannot be attached to the tables or walls.
11. Materials and construction must be durable. All power-driven movable parts must be firmly attached and enclosed in suitable barriers to prevent accidents.
12. All exhibits where batteries are used should have enough batteries on hand to ensure continued operation.
13. There must be no open flame, torch or burner in the display area.
14. Projects may not be taken on the school bus.
15. **Projects must be labeled with NAME, TEACHER, and GRADE.**
16. All projects must be taken home immediately following the school day on May 7, 2010. Parents need to come by and pick up the project.

SCIENTIFIC METHOD FORM

Run a controlled experiment and record data. Do the experiment using the method below. Keep notes and write everything down.

- **PROBLEM** – What is the question you want to answer?
- **HYPOTHESIS** – What do you think will happen when you perform your experiment?
- **PROCEDURE** – Collect and study your data. What steps did you follow as you performed your experiment? Be sure to include a list of materials.
- **RESULTS** – What happened after you conducted your experiment? List what you observed.
- **CONCLUSION** – What did your experiment prove or disprove about your hypothesis?

KWL CHART

What I Know:

What I Want to Find Out:
And What I Did:

What I Learned:

**** **There will be no judging of projects.** Each individual/combined student participant will receive a certificate, a small prize, a Mighty Knight and a homework pass. Each class participant will receive one class certificate and a Mighty Knight per student.****

If you have any questions, please contact Carol Cope at [215-794-2326](tel:215-794-2326)/ragtopsix@verizon.net, Mrs. Viel at [267-893-4200](tel:267-893-4200)/lviel@cbsd.org, or Mr. Radcliff at [267-893-4200](tel:267-893-4200)/jradcliff@cbsd.org.

**AN EXAMPLE OF A SCIENCE PROJECT ON TRI-FOLD
POSTER BOARD USING THE KWL CHART:**

- (a) **Title**: Does a plant really need air, light, and water to grow?
- (b) **What I Know**: Plants need air, light, and water to grow.
- (c) **What I Want to Find Out**: Will a plant remain healthy without water or light?
- (d) **What I Did**: I got 3 plants:
Plant A: I gave it air, light, and water
Plant B: I gave it air and light (no water)
Plant C: I gave it air and water (no light)

I made a chart and rated the quality of the plants for six weeks. I checked the condition of the plants every week and rated the plant Great, Good, Not Good or Bad.

- (e) **What I Learned**:
Plant A did the best
Plant B did not remain healthy without water
Plant C did not remain healthy without light

Plants can remain healthy for a little while without water or light before the leaves get soft, turn yellow and die.

Plant B without water was the first plant to start looking bad. Then Plant C, without light, did not look good.

Plant A did the best because it got everything it needed.

In most cases, plants need air, light, and water to remain healthy, but different types of plants need different things.

- (f) **Name, Teacher, and Grade**.

Title

What I Did:

What I
Know:

What I
Want
To Find
Out:

What I
Learned:

Name:
Teacher:
Grade: