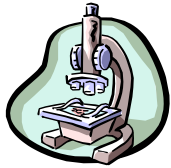




Science Rules!

Centennial Lane Elementary School
Science Fair Handbook

2011 – 2012



Dear Young Scientist,

Congratulations on your decision to participate in this year's Science Fair at CLES! Please read the following information packet carefully with a family member. It has the project guidelines for this year and lots of helpful hints for you. We look forward to learning more about your project!

Sincerely,

The CLES Science Fair Committee

Timeline for Science Fair Project

Date	Activity
<i>January 23rd</i>	Science Fair Packets available on the CLES Web Site
	Choose a Topic
	Research Topic
	Form a question
	Continue Research
	Conduct Investigation
<i>February 3rd</i>	<i>LAST DAY TO REGISTER</i>
<i>Feb 13th – Feb 17th</i>	Complete Worksheet
	Complete Display Board
<i>February 24th</i>	6:15 – 6:45 Check-In & Set Up at CLES (Please DO NOT arrive earlier)
	6:45 – 8:15 Science Fair Judging!

The PTA will not be offering display boards for purchase this year. However, you can usually find them at local office supply stores and large craft stores.

Important!

Science Fair Project Guidelines

These guidelines are designed to ensure the safety of our science fair participants and the viewing public. Science fair project proposals will be reviewed for compliance with these guidelines.

1. Science fair projects may not include inhumane treatment of people or animals. In fact, we recommend that **no** projects at this level use people or animals as subjects.
2. No living organisms except plants may be exhibited at the fair. Display of spoiled foods, molds, bacteria, microorganisms or any other type of cultured growth is not permitted.
3. Anything that is normally prohibited on school property or that could be harmful to the public can not be exhibited at the fair. It includes, but is not limited to harmful chemicals, caustics, acids, poisons, explosives, open flames, combustible materials, and any sharp items (knives, pins, hypodermic needles).
4. Models or photographs can be used instead of things that are restricted from display.
5. There will be space for each exhibitor to have a display board and a small amount of table space in front of the display board. No running water or electricity will be available. If you are interested in developing a project involving electricity, you may choose to use batteries.
6. Projects should be developed, carried out, and exhibited by students with minimal help from adults.
7. In the interests of bus safety, we ask that students bring their projects to school the evening of the Science Fair, rather than on the school bus. Students will set up their projects in their assigned locations during the half hour preceding the Fair.

Designing and Conducting a Well-Designed Investigation

A well-designed investigation has the following elements:

- A **question** to be tested or a problem to be solved
- A **hypothesis** or **prediction** about what you expect to happen (if... then... because)
- **Materials** – supplies needed for investigation
- Three types of **variables** (Intermediate level, grades 3-5)
 - **independent** – the variable that is changed
 - **dependent** – the variable that will be affected by the tests
 - **controlled** – the variables that remain the same throughout the investigation
- Clear **procedures** (or *steps*) that make up your experiment. They should be repeated at least 3 times
- Collected **data** – what you observe when you perform the investigation
- **Analysis** of data – think about and discuss what you have observed. What were your results?
- **Conclusion** – what you learn from the data that you collect with **questions** to test the next time

Your final project will consist of a self-standing display board on which you will share all the parts of your investigation. All of these parts must be typed or neatly written. Pictures with captions, by camera or hand drawn, are strongly encouraged to help your audience clearly understand all the parts of your investigation.

Ideas for projects can be found online and in books at the local library or the school's media center.

A few sources are listed on the CLES Science Fair website at:

www.clespta.org/ScienceFair

CLES Science Fair Project Planning Worksheet

Question: *What I want to know*

Prediction / Hypothesis: *What I think*

Materials: *What I used for my project (clay, cups, soil, books, web...)*

Variables: *Independent, Dependent and Controlled (for intermediate grades 3-5)*

Steps / Procedure: *What I did to complete my project. Write in a list or in paragraph form. Explain your materials and how you will use them.*

Science Fair Plan-Your-Display Sheet

Use colors, make clear and neat pictures, be creative!



This is only one example of a project display board. There are many different ways to display information. Ask your teacher, look for books on science fair projects at the media center, or check online for more examples.

DISPLAY TAG

Complete the form below. Please print all information neatly. Your project number will be given to you the night of the fair.

Cut out the form and affix it to your project in the upper left corner of the title bar or display board. The display tag helps the project reviewers find your project.

Name of Young Scientist(s)	Grade
<hr/>	
<hr/>	
<hr/>	
Project Title	
<hr/>	
<hr/>	
Project Number	<hr/>

CLEES Super Science Fair 2012

Registration Form

Please turn in this form to register your project. It must be turned in to your homeroom teacher in an envelope marked *Science Fair Registration* no later than **Friday, February 3, 2012**.

There is a \$2.00 registration fee *for each student*. Checks should be made out to the **CLES PTA**.

Teams of up to 3 students are allowed. Only one registration form is required. The project will be registered under the first student's name. However, **all** students must be listed on the form so their names can be included in the program.

_____	_____	<u>F / M</u>
Student's Name	Teacher/Grade	Gender
_____	_____	<u>F / M</u>
Partner's Name	Teacher/Grade	Gender
_____	_____	<u>F / M</u>
Partner's Name	Teacher/Grade	Gender

Students _____ X \$2.00 registration fee = \$ _____
(Checks Payable to CLES PTA)

Your topic or question (optional)

I have reviewed the Science Fair Guidelines with my child and will ensure that the project complies with them.

(Parent's/Guardian's Signature)

Parent's/Guardian's Email