

STUDENT INFORMATION
LITTLE OAK and BOYET JUNIOR HIGH
SCIENCE FAIR



CONGRATULATIONS YOUNG SCIENTISTS! You are about to blast off into a world of adventure. Come and travel on this scientific voyage of exploration, experimentation, and discovery. For you to succeed in completing this mission, you must possess these three things:

1. **Curiosity**
2. **Imagination**
3. **The desire to have fun!**

The following information should give you enough fuel to start you on your way. As you travel through the weeks, discuss your ideas and progress with your family. They will enjoy being able to go along with you for this thrilling ride!

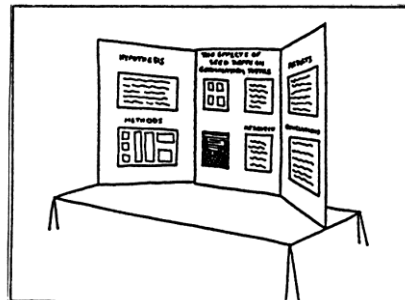
DESTINATION: Little Oak Middle School Gymnasium

PURPOSE: Present your fabulous project at the SCIENCE FAIR

REWARD: Adventure, Learning, Excitement, and FUN

Your Project will be composed of:

1. A sturdy **display unit** that is 36" high by no more than 48" long; this is where you will hang all of your written information.



2. Any Exhibit Materials; these will be placed in front of your display board on the table provided.



Five types of projects you may choose from:

1. **EXPERIMENTAL-** Have you ever wondered why geckos roam your kitchen



windows on a warm evening? Here's your chance to find out! Ask your question and then design an experiment to try to answer it. Record your results carefully so that you can report them accurately. Then, explain your answer. If it's not what you expected, that's OK! Just think of reasons why it may have turned out the way it did. Here are the 6 steps of the **Scientific Method** to guide you in your quest.

Purpose (What do you want to learn? Ask your question.)

Research (Find out as much about your topic as you can.)

Hypothesis (Based on your research, predict the answer to the problem.)

Experiment (Design a test to confirm or disprove your hypothesis.)

Analysis (Record what happened during the experiment.)

Conclusion (Was your hypothesis correct? Explain your results.)

2. **DEMONSTRATION-** You may wish to demonstrate how something works, a science phenomenon, or how something is created naturally or in the lab. Your project should include your background material and research.
3. **RESEARCH-** Explore a scientific area in depth and detail and report your findings in an interesting way. You may gather your information from books, on-location visits, interviewing experts, or writing away for information, to name a few ideas.
4. **COLLECTION-** Do you have the greatest fossil collection this side of the Rocky Mountains? Then show us! Display and discuss in detail your set of specimens. Examples of scientific collections include rocks, shells, fossils, insects, abandoned bird's nests, etc. The project should include research and detailed scientific information about your collection.
5. **APPARATUS-** Display some kind of scientific apparatus or instrument and describe its use or function in detail. The project should make clear the importance of its use for science and the general public.

When completed, all projects should contain these 8 components:

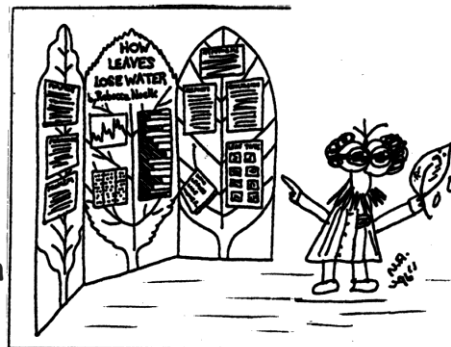
1. **Title** (make it catchy)
2. **Purpose** (what is being studied and why)
3. **Introduction** (give detailed information about your topic, info from references)
4. **Hypothesis** (before you do the experiment, tell how you think things will work, why you think you found things the way they were, etc.)
5. **Methods** (the way you conducted your experiment, obtained your collection, or made your observations)
6. **Results** (your record of what actually happened; this may include graphs, charts, photos, specimens)
7. **Conclusions/ Summary** (state your conclusions or importance, explain why you think things turned out the way they did)
8. **References** (list the people or sources you used to gather your information)



Remember that you and any partners should be able to thoughtfully describe your project to the judges and be able to answer questions about your work.

A final note:

No hazardous materials, open flames, or live vertebrate animals will be allowed into the exhibit hall. If you choose to do a project using any of the above, you can use photographs, drawings or models as an excellent way of presenting your data.



Reference for portions of the enclosed literature:

The Complete Science Fair Handbook, published by Scott, Foresman and Company.
Copyright © 1990 Anthony D. Fredericks and Isaac Asimov.
Art from above reference, **The Discovery Channel Science Clip Art and Nicole Alliegro**

Some Additional Notes:

- No more than 2 students for a project. Partners in different grades will be judged at the higher grade.
- Ribbons will be given to each partner in a project, but partners must share the donated special awards.
- Report any changes in partners or drops as soon as possible.
- Tri-fold boards can be purchased at most office or educational supply stores.
- If you have questions, please contact us at lomboyetscifair@bellsouth.net