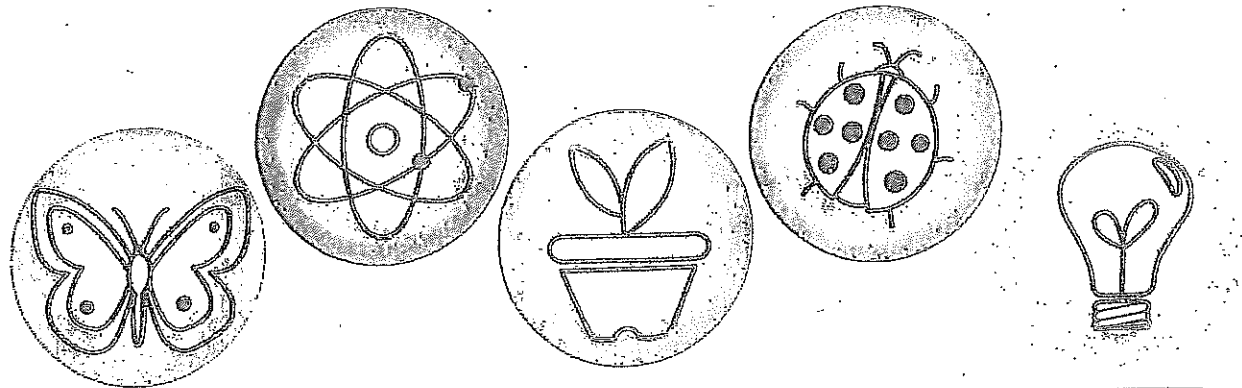


2019



SCIENCE FAIR

WHAT IS A SCIENCE FAIR? - A presentation of answers to questions, proven by experiments

WHO WILL ENTER? - All students in sixth, seventh, and eighth grade

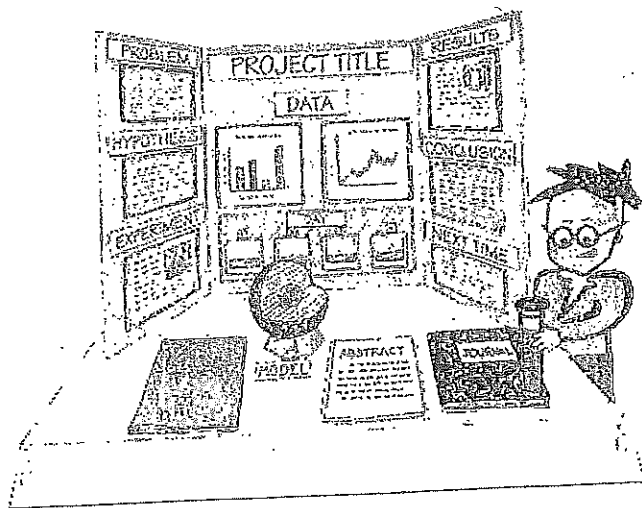
WHAT DO I NEED FOR THE FAIR?

- A question or a problem to answer or to solve
- A reason why or what value this problem can bring to others when it is answered (Hypothesis)
- An experiment/experiments to help solve the problem
- Results of Science experiments, designed to answer the question
- A notebook to log work with the experiment
- A display (trifold) board to display the findings on
- A report to explain what has been done in the experiment

WHERE DO I BEGIN?

1. Brainstorm **AREAS OF SCIENCE** that interest me!
 - a. Do I like working with plants? Do I like working with electricity and batteries? Are magnets fun to work with? Do I like sports?
2. Come up with a **QUESTION** that pertains to things of science that interest me!
 - a. What happens when I try to grow my plants under colored light?
What brand of batteries lasts longer? What paper towels can hold the most weight?
3. What value do these problems/questions have to others, if I were to answer them?
4. **STATE YOUR HYPOTHESIS** - an educated guess of what might happen based on research from various sources.
 - a. I think that plants might grow better in artificial light. I think that people need color to help them identify different sodas.
5. **COME UP WITH AN EXPERIMENT TO ANSWER YOUR QUESTION!**
 - a. Think how you can best find the answer to your question. Make sure you repeat the experiment several times - that's better proof of your findings - or make sure you are doing the experiment over a time period.
6. **NOTE EVERYTHING THAT YOU OBSERVE ABOUT YOUR EXPERIMENT!**
 - a. Keep a record of it in your **SCIENCE FAIR NOTEBOOK** (40 points). Make sure you date your entries. Write all things that you see, hear, smell, or touch about your experiment, even if they're the same findings as the day before. There should be multiple entries! If something doesn't work, tell us!
 - b. **ORGANIZE ALL YOUR FINDINGS** - Use charts, pictures, or graphs to show your information. Keep this for your display.
7. Answer your question! - Your conclusion is the **ANSWER** to your hypothesis

8. Write up your **REPORT** (30 points – will also count as an ILA writing grade) - a one to two page typed report (size 14 Times New Roman font) should include:
- QUESTION** – Why or what value does this area have for others?
Why did you decide to do this project?
 - RESEARCH** about your question (list at least 3 sources)
 - HYPOTHESIS** – your educated guess as to what will happen
 - PROCEDURE** – how you set up your experiment – can be in bullet point form
 - MATERIALS** used for the project – can be in a list
 - OBSERVAIONS** – what did you see happening? Can be a summary
 - ANALYSIS & CONCLUSION** – the answer to your hypothesis.
What could you have done differently?
 - BIBLIOGRAPHY** (the last page) – a list of your resources, including books, articles, web sites, or people who helped you (one person who is knowledgeable in a particular area can be used as a source) – there must be 3 sources, including at least one book
9. **CREATE** a **TRI-FOLD** – a free-standing poster board used to display the findings of your experiment in an attractive, eye-catching way (30 points)
- Include a **CATCHY TITLE** – make people interested in your work
 - Make sure all writing & lettering is neat and colorful –
PROOFREAD!
 - Include **CHARTS**, tables, & graphs – condense information, telling people about your results
 - Include **PICTURES** – taken throughout your experiment, showing progress (do not include a picture of yourself!)



IMPORTANT DATES TO REMEMBER:

Tuesday, March 5th – Hand in question/problem for your Science fair topic

Tuesday, April 9th – First notebook check (should have Question, Research, Hypothesis, and Procedure/ Set up)

Tuesday, April 16th – TEACHER DAY!! More info about tri-fold & report-bring research materials

Tuesday, April 30th – Second notebook check

Thursday, May 16th - bring in notebook, completed-notebook will be graded at this time & returned on Friday, May

Tuesday, May 21st - Judging will occur.

Bring in:

- Science Fair Project
- Tri-fold
- Science fair notebook
- Report
- Any objects to be displayed with project

Thursday May 23rd - DISPLAY of projects during spring show & announcement of WINNERS

Friday, May 24th - Projects go home!