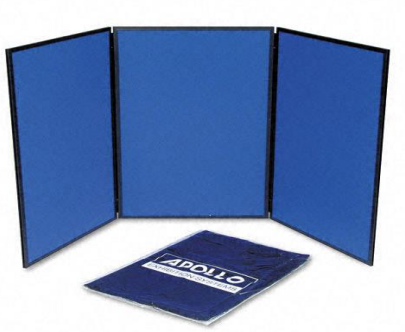
SCIENCE EXPO 2019 GUIDELINES

Format A: For Students in Preschool through 5th Grade:

1) Students need to learn something in science and share it.
   Projects may include:
   a- a collection (rock, shell, or pinecone collection)
   b- an artistic recreation of an observation or a known fact (drawing of a beaver dam or mobile of the solar system)
   c- an extension of science class activities (grow bean seeds with and without a light source or study the plant and animal life in your nearby stream)
   d- any wonderful science concept you want to share (a list of suggested ideas is included in this packet)
2) Project size is usually 3 feet long by 2 feet wide (larger spaces are certainly available). Please let me know if you will need an electrical outlet.
3) All projects must be identified with the child's name, grade, and a description of the project on a note card or display board.
4) A display board could be used in order to help present the project. The 2-sided or 3-sided display boards pictured below work well. In addition to your child's name, grade, and brief description of the project, other information such as hand-written or typed text, pictures, charts, graphs, and drawings may help to clearly explain the project and display nicely on these boards. For your convenience, our School Store will be selling 3-sided boards for $4.00 each. Many colors will be available.



5) Since the students will be reading books and/or magazines (for example, National Geographic *Kids* or National Wildlife Federation *Zoobooks*) to learn about their topic, it is recommended that one of these be displayed with their project.
6) Projects should be delivered to school on Friday, March 8th, and brought home on Monday, March 11th, after being shared during the Expo Assembly (8:30-9:00).
7) Students must return the enclosed Registration Form and $10.00 (cash or check payable to Meadowbrook School) by Friday, Feb. 22nd, to insure the receipt of a specially designed t-shirt.

Format B: For 6th Grade Students

1) Students in 6th Grade are required to do a project and follow this guideline-Format B.
2) The project should demonstrate a principle or be an experiment with an expected (or sometimes unexpected) outcome.
3) The Scientific Method must be followed and clearly labeled on the display board. The Scientific Method will be taught during science class.
    a- The project must have a title stating the problem or subject of the project.
    b- A hypothesis must be stated. A hypothesis is a proposal or your prediction of the results of the experiment. The hypothesis must be set *before* the experiment begins. Don't worry; it is perfectly acceptable for the outcome to be different from the hypothesis.
    c- Research of the main concepts needs to be included and presented with a Bibliography.
    d- The materials list and procedure or steps explaining how you did your project should be detailed.
    e- Next, your observations should be listed. The observations are a record of what happened during the experiment, and they should be stated without any interpretation or opinion.
    f- Finally, state the conclusion or an interpretation and explanation of the results.
4) Parts 2, 3, 4, 5, 6, and 7 of Format A also need to be followed.

Categories for All Expo Projects: Preschool through 6th Grade

There are so many projects to pick from in the 3 main categories of science:

1) Life Science- Includes anything to do with plants or animals
2) Earth Science- Includes rocks and minerals, soil, weather, geology, volcanoes, plate tectonics, atmosphere, astronomy, water, fossils
3) Physical Science- Includes electricity, magnetism, gravity, sound, light, chemistry, matter, solids-liquids-gases, motion, simple machines

Rules for All Expo Projects: Preschool through 6th Grade

1) Live animals may not be present at the Expo. Photographs or drawings are a good alternative.
2) Projects may not harm or subject any animal (vertebrate or invertebrate) to conditions that deprive its normal well-being.
3) All experiments which involve heat, chemicals, fuels, electricity, or other potentially hazardous materials or procedures must be supervised by an adult.
4) Safety goggles must be worn when performing experiments with the above mentioned materials.
5) Potentially harmful substances or experiments or projects producing fumes may not be present at the Expo!