

Second and Third Grade

MODELS

Make a model with an explanation of what it is and how it works. Our Science Fair is designed to encourage all students to apply basic science skills in a creative and productive manner. Fostering the development of science skills is an on-going task, and the Science Fair intends to provide a special time set aside to give students the opportunity to solve problems, think creatively, experiment, and work with scientific data. This is a student project that must reflect students' creativity, problem solving, and skill level. However, parents are encouraged to offer help and support as needed.

Model Requirements

1. Create a title for your model.
2. Write a step-by-step procedure of how you made the model.
3. Explain how the model works.
4. Make a model or provide detailed illustrations with labels.

Presenting the Model

The model may only occupy a space the size of the student's desktop (24" inches long and 15" deep). Models may be mounted on a display board, cardboard/tag board, or any reasonable manner that fulfills the display requirements.

Model Ideas

- Construct a model of the eye showing its different parts.
- Make a model of skin with its various layers.
- What does a magnetic field look like?
- Make a model of a cross section of a leaf.
- Make a flower and its parts.
- Create and label the parts of an insect or arachnid (spider)
- Illustrate and name birds, fish, dolphins, whales, sharks etc.
- Pick an animal community and display it in a diorama.
- Create a terrarium.
- How do magnets work?
- Create models of a variety of common molecules.
- Construct two types of circuits. (DC only)
- Compare and contrast different types of batteries.
- Make a model showing erosion
- Construct a spider web and describe its function.
- Use cotton balls to make different cloud formations.
- Build a model of a suspension bridge
- Construct models of constellations.
- Make a working model of muscles and bones in the arm or leg.
- Make a model of a body system: skeletal or circulatory
- Make a model of one of the organs, such as heart, lungs, liver etc.
- Construct a model showing the layers of the earth.
- Create your own fossils using plaster casts.
- Make a model of the ocean's floor, labeling each part.
- Create a model of an atom.
- Create a model of an engine.



Second and Third Grade

Safety First

The safety of the students, and all those around them while preparing, conducting, and sharing their science projects is of utmost importance. Please read and follow the safety guidelines.

- Never use or mix any chemicals or hazardous materials
- Always wear eye goggles with activities that could harm your eyes
- Do not use live animals
- Avoid using sharp objects
- Do not use an open flame to conduct experiments
- Avoid using AC current electricity
- If electricity or heat is needed, adult approval and supervision is required
- Do not display items that require tasting, touching, or inhaling
- Project display should be free of objects easily broken
- Always use common sense - Safety First

Make Your Model a Success!

- **Start early:** Don't wait till the last week to start your project. Gathering materials to make your model takes time.
- **Make it your own:** Parents are encouraged to help and support as needed. However, the best learning will come from the effort put in by the students.
- **Be creative:** This is an opportunity for you to investigate something that interests you. Great discoveries have come from children dreaming up ideas that have never tried before.
- **Neatness counts:** A great project presented in a sloppy manner won't be well received. Take the time to check your spelling, accuracy of the information presented and the neat orderly manner in which your science display is presented.
- **Keep it safe:** Don't display anything that will be dangerous to any people viewing your work (i.e. chemicals, live creatures, live electrical items, sharp or breakable objects).
- **Have Fun:** You can learn a lot about science and have a good time, too!