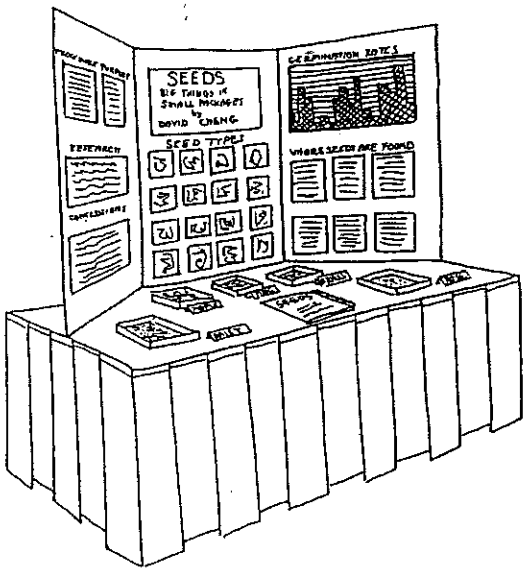
Primary Science Fair Ideas!

Experiments

- Test any responses to real and artificial sweeteners.
- Effects of temperature changes on fish.
- Do preservatives stop bread mold from growing?
- How leaves lose water.
- Effects of sunlight on plants.
- Effects of crowding on plants.
- How changing the fulcrum affects a level.
- What fabrics make good insulators?
- How do charged objects act toward each other?
- Materials that are the best conductors of electricity.
- Effects of height of a swinging mass on its energy.
- How are crystals formed?
- Removing salt from water.
- Which foods contain starch?
- Which sense organ can detect the greatest variety of sensory information?

Demonstrations

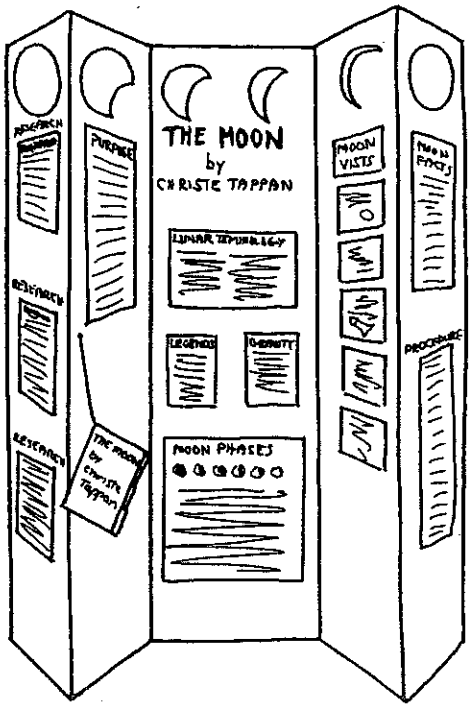


- Construct a clay model (with cutaway sections) showing the three layers of the earth.
- Create your own fossils, using plaster casts.
- Make a model of the ocean's floor, labeling each part.
- Construct a model of the eye showing its different parts.
- Where different flavors are tested on the tongue.
- Using modeling clay, make a cross section of the skin.
- What does a magnetic field look like?
- Using a graduate, measure the volume of several objects.
- Set up a box with two holes in it (for hands to reach in) containing unknown objects. Participants reach inside and try to guess what the objects are by feeling them and describing their characteristics.

- Testing minerals for their various properties.

Research

- Show how living things depend on one another through food chains.
- Use food webs to show how members in a community get their energy.
- Illustrate how animals live underground.
- What are the types of jobs bees have in a honeybee colony?
- How are bees helpful to humans?
- Ants and their jobs.
- Show examples of parasite and host relationships.
- Diagram the parts of trees or flowers.
- The life cycle of nonseed plants.
- Prepare a nature guide to plants and trees on the school grounds or in your neighborhood.
- How plants make food.
- How animals and plants adapt in order to survive.
- Types of bird beaks and their function.
- Why animals hibernate.
- Pick a career in science and tell about it.
- Examples of potential and kinetic energy.
- Learn about insulators and conductors.
- How rocks are formed.



- Uses of rocks and minerals in everyday life.
- The formation of coal.
- Chart the Gulf Stream or any other major warm- or cold-water current.
- Using resources from the sea: advantages and disadvantages.
- All about the wind chill factor.
- How air temperature changes.
- The Beaufort wind scale.
- Chart similarities and differences between the planets (temperature, distance from the sun, moons, length of day, and so on).
- Everything you wanted to know about Saturn (or Mars, or Neptune, or Uranus...).
- Record local temperatures (at regular intervals) throughout the day for several weeks.

- Compare predicted weather with actual weather.
- The digestive system and how it works.
- From cells to systems.
- The human eye and how it works.
- What is color blindness?
- The history of measurement.

Collections

- Clay models of animals that live in groups.
- Start your own ant colony.
- Collections of any of the following: leaves (fall foliage or green), pinecones and/or needles, weed seeds, plants that reproduce without seeds.
- Make casts of animal tracks.
- Birds' nests: collect the materials used in building nests.
- Monocot and dicot seeds and/or flowers.
- Simple machines used in everyday life.
- Start a collection of rocks found in the area.
- Collect some common minerals.
- Use pictures to show examples of animal populations: herds, colonies, schools, and so on.
- Display pictures of herbivores, carnivores, and omnivores.
- Collect items that show different forms of energy (chemical, light, sound, heat, electrical, mechanical).
- Demonstrate different types of animal teeth.

Apparatus

- Construct a homemade thermometer.
- Series and parallel circuits.
- How to make electromagnets.
- Make each of the following and describe how it works: barometer, anemometer, wind vane, rain gauge.
- Construct a balance and invent your own measuring system to measure matter.
- Make an electrical question board.