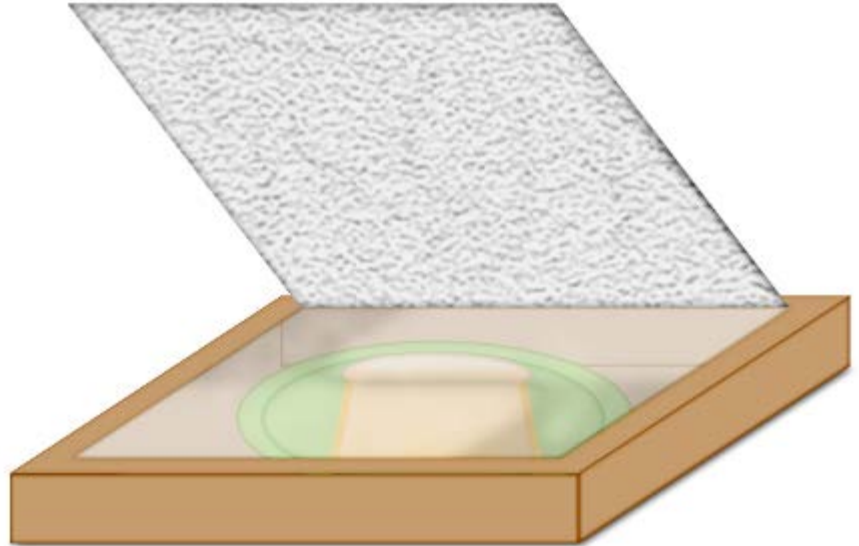


Children's Solar Oven Project

There is no better way to teach children about sun power than to have them construct a simple, yet powerful solar oven. This project makes an excellent science project.

Materials

- Cardboard pizza box
- Ruler
- Scissors
- Aluminum foil
- Clear tape
- Heavy-duty freezer bag
- Black construction paper
- Newspaper
- Wooden spoon



Instructions

1. Draw a square on the lid of the pizza box that is 1 inch smaller than the box on all sides.
2. Cut three sides of the square to make a flap.
3. Fold the flap so that it stands up when the lid is closed.
4. Cover the inside of the flap with aluminum foil, using tape to secure it to the cardboard.
5. Cut the freezer bag open along the seams.
6. Open the box lid and tape the freezer bag to the inside of the flap hole. This will create an airtight window for sunlight to enter the box.
7. Put black construction paper on the inside of the bottom of the box.
8. Roll up several sheets of newspaper and tape them around the inside of the box bottom. Be sure that the lid can still close.

Directions for Use

- Use the oven between the hours of 11 a.m. and 3 p.m. when the sun is highest.
- Adjust the flap until as much sunlight as possible is reflecting off of the foil to the window area.
- Use a ruler to keep the flap open at a right angle.
- Try buttering a slice of bread and placing cheese on top. Cook the bread in the oven on a clear glass or plastic plate.
- Be careful when taking the plate out of the oven; it will be hot.