Science Adventures: Take the Adventure Home

Fun hands-on science activities to engage your child in discovery learning
Developed by Science Adventures' Andy the Science Wiz

Solar Oven

It is important for people to care for and protect their environment. The three R's are the key. **Reduce** the amount of waste you produce. **Reuse** things when you can. **Recycle** and buy recycled products. Using only the amount of energy that is necessary and choosing **renewable energy** sources are other ways to take care of and be responsible with Earth's resources. Heat and light energy that comes from the sun is **solar energy** and it is renewable because we have a limitless supply of it.

A solar oven uses the energy from the sun to warm food. Make a solar oven to learn about renewable resources and the energy we get from the sun

What you will need:
Used pizza box
Aluminum foil
Plastic wrap or clear plastic sheet
String
Used paper
Shallow cup, bowl, or pan.
Scissors
Crayons or markers

What to do:
1. Cut a square window out of the top of the pizza box.

2. Tape the plastic over to covering of the window on the inside of the box. The plastic will let the heat inside the box but not back out.

3. Choose a small container to place centered under the window inside the solar oven. Use aluminum foil to line the inside of the container. The foil reflects the solar energy and bounces it back and forth inside the container.

4. Use scrap paper to insulate the inside of the box. Crumple up the used paper and pack it between the pan and the edges of the inside of the box. This will also keep the heat from escaping from the inside of the solar oven. This is kind of like insulating inside walls and attics to keep your home from loosing its heat.

5. Choose foods that may melt easily in the sun. Some ideas are:
   Chocolate for chocolate covered fruit.
   Cheese on crackers
   Butter or peanut butter on toast

HAVE FUN IN THE SUN!!!

About Andy the Science Wiz
Andy Allan, scientist and educator with Science Adventures™, is passionate about inspiring a world of learners through hands-on science fun. Through the Science Adventures programs, and experiments like these, Andy offers children hands-on interactions with science that keeping children on the cutting edge of discovery.

About Science Adventures
Science Adventures children's Camps take science education out of the classroom to spark an interest in the world of science and discovery. The 2009 summer camps, now open for enrollment, incorporate hands-on, interactive lessons designed to offer children new ways to learn through exploration, teamwork and engaging projects. Science Adventures programs are offered to students ages 5 to 12 years. For more information visit www.scienceadventures.com.