Harness the Energy of The Sun to Make the Best Snack Ever Invented

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Sunshine S'mores



Yummmmm!

A solar oven is a box that traps some of the Sun's energy to make the air inside the box hotter than the air outside the box. In other words, the solar oven is like a super greenhouse.



You will need:

- Cardboard box with attached lid. Lid should have flaps so that the box can be closed tightly. Box should be at least 3 inches deep and big enough to set a pie tin inside.
- Aluminum foil
- Clear plastic wrap
- Glue stick
- Tape (transparent tape, duct tape, masking tape, or whatever you have)

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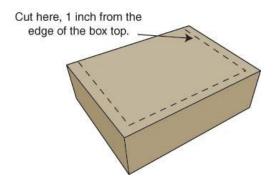
- Stick (about 1 foot long) to prop open reflector flap. (Use a skewer, knitting needle, ruler, or whatever you have.)
- Ruler or straight-edge
- Box cutter or Xacto knife (with adult help, please!)

How to make solar oven:

CAUTION:

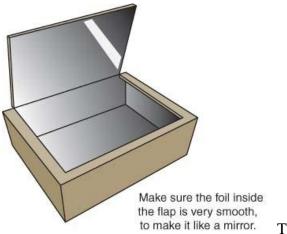
Have an adult cut the box with the box cutter or blade.

Using the straight edge as a guide, cut a three-sided flap out of the top of the box, leaving at least a 1-inch border around the three sides.

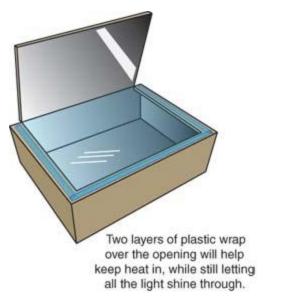


Cover the bottom (inside) of the flap with aluminum foil, spreading a coat of glue from the glue stick onto the cardboard first and making the foil as smooth as possible.

Line the inside of the box with aluminum foil, again gluing it down and making it as smooth as possible.



to make it like a mirror. Tape two layers of plastic wrap across the opening you cut in the lid—one layer on the top and one layer on the bottom side of the lid.



Test the stick you will use to prop the lid up. You may have to use tape or figure another way to make the stick stay put.

Put the oven to work

Set the oven in the direct Sun, with the flap propped to reflect the light into the box. You will probably have to tape the prop in place. Preheat the oven for at least 30 minutes.

To make S'mores, you will need:

- Graham crackers
- Large marshmallows
- Plain chocolate bars (thin)
- Aluminum pie pan
- Napkins!

Break graham crackers in half to make squares. Place four squares in the pie pan. Place a marshmallow on each.