

Solar Cooker

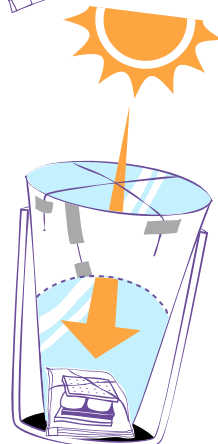
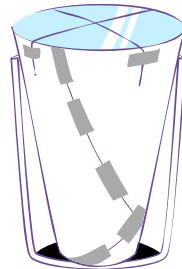
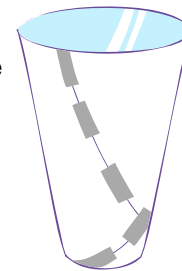
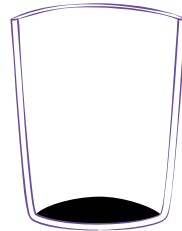
CAN THE SUN COOK?

When we think about energy sources, we tend to forget about the sun, which is the ultimate source of our energy on earth. It makes plants grow, keeps us warm, and can even cook our food.

Find out how you can cook a tasty treat with just the sun.

TRY THIS

1. Cut the black paper in a circle to match the diameter of the inside bottom of the bucket or wastebasket.
2. Attach the black circle to the bottom of the bucket or wastebasket with the glue stick.
3. Attach foil to one side of tagboard using the glue stick.
4. Role the tagboard into a cone shape, with foil on the inside, about an 6-8 inch opening at the bottom, and about an 18-inch opening at top.
5. Seal the cone on its outside along the seam with tape.
6. Holding the cone upright, draw a line around the bottom and top of the cone to even them out, then cut off the excess with scissors.
7. Fit the cone inside the wastebasket or bucket with the small opening at the bottom. Securely attach it with tape.
8. Stretch two strings across the top of the cone so they cross at the middle of the top opening. Attach them with tape.
9. Create a s'more and seal it inside the plastic bag.
10. Place the bag inside the bottom of the cone, on top of the black paper.
11. Aim the wastebasket/bucket at the sun so that the crossed strings' shadow is in the middle of the bottom opening of the cone.
12. Adjust the position of the wastebasket/ bucket every 10 minutes, to keep the shadow of the crossed strings at the center of the bottom opening of the cone.
13. When the marshmellow in the s'more is melted, remove the s'more from the plastic bag, and enjoy your snack.



THINGS YOU NEED

- Bright sun
- Large round wastebasket or bucket
- Large piece of tag board, about 24" x 36" or larger
- Aluminum foil
- Glue stick
- Masking or duct tape
- Black piece of paper
- Scissors
- String
- Plastic zip lock bag
- S'more ingredients:
 - graham cracker
 - chocolate bar
 - marshmallow

POWER WORDS

Radiation is the stream of invisible rays that come from any source of heat, including the sun.

Solar Power is energy from the sun.

WHAT DO YOU THINK?

How long does it take for the s'mores to cook?

How would it compare to just leaving the s'mores out in the sun?