



Pizza Box Solar Oven Directions

<https://youtu.be/iXHvWVvagul>

Materials:

1. One pizza box
2. Four marshmallows
3. Folded foil labeled B
4. Folded foil labeled T
5. Plastic wrap folded with paper tabs
6. 9 inch by 9 inch black paper
7. 9 inch by 3 inch black paper
8. One fork or spoon or chopstick
9. One roll of clear tape

Purpose: to make a solar oven able to melt the marshmallows (or chocolate, butter, or cheese)

Directions:

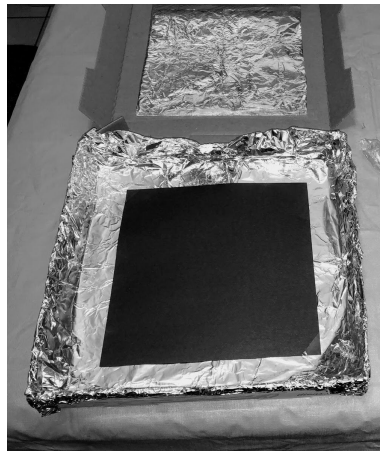
1. READ ALL DIRECTIONS BEFORE BEGINNING
2. Take everything out of box
3. Carefully unfold foil labeled T
 - a. Lift top flap.
 - b. Fold the foil over the cut top flap with shiny side facing into the box
 - c. Tape foil to top of box flap
4. Unwrap a little of the plastic wrap by holding the tabs
 - a. Remove paper tabs from plastic wrap edge
 - b. Tape edge of plastic wrap to edge of box
 - c. Unroll plastic wrap to cover opening under flap
 - d. When at the end of the plastic wrap, fold and tape to other side. Do not tape the box shut!
 - e. Fold plastic wrap and tape to front of box
 - f. Open box and tape remaining untaped plastic wrap edge to the flap where it hinges (bends open), to the edge of the foil



- g. If this failed, there is another piece of plastic wrap so you can try again
- h. If this failed, skip this part



5. Carefully unfold foil labeled B



- a. Place in bottom of box with shiny side facing up
- b. Press carefully over sides and tape to box outside
- c. Tape foil if it tears
- 6. Place square of black paper in bottom of box over foil and tape
- 7. Use fork or spoon or chopstick to prop flap open. Tape to secure.
- 8. Note: box will not close with flaps inside anymore
- 9. Place pizza box oven in direct sunlight so that the open lid doesn't cast any shadows.
 - a. Continue to move if necessary to avoid shadows
 - b. Put small rock(s) into oven corners if it is windy
 - c. If it is really windy, hold the box or try another day or time
- 10. Put marshmallow(s) on small piece of paper and put into oven.
- 11. Tape box closed.
- 12. Remove marshmallow(s) in one hour. They should be soft.
- 13. Try to warm other foods; butter, chocolate, cheese work well.

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