

ENERGY EFFICIENCY DAY

HOW TO MAKE YOUR OWN SOLAR OVEN

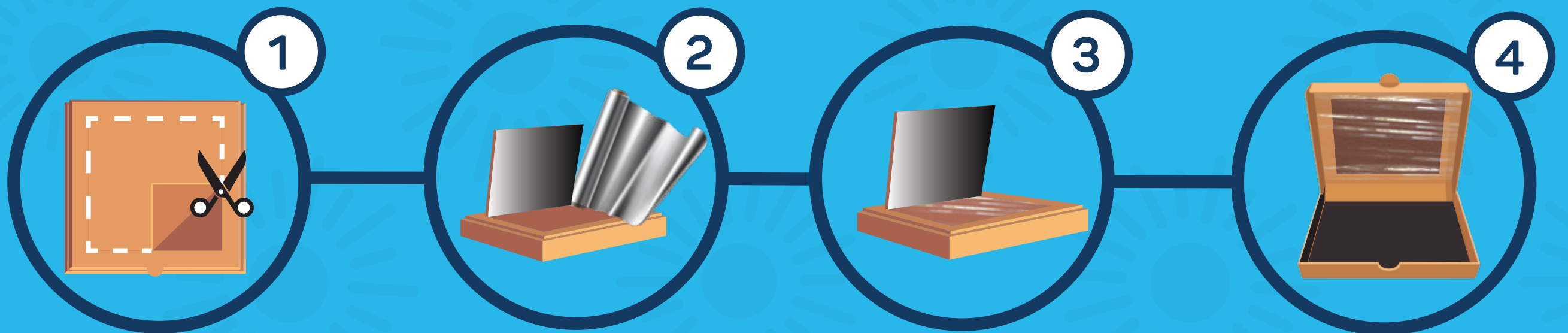
WHAT YOU WILL NEED:

- Cardboard pizza box
- Black construction paper
- Box knife or scissors
- Newspapers
- Aluminum foil
- Ruler
- Clear tape
- Pen
- Plastic wrap
- Thermometer
- An adult to help you cut

<https://www.homesciencetools.com/article/how-to-build-a-solar-oven-project/>

STEPS:

1. Close your pizza box. On the top of the box, draw a square measuring 3cm from each edge. Using a box knife or scissors, cut along three sides of the square to create a flap. Fold the flap upwards so that it stands when the pizza box is closed.
2. Tightly wrap the inner part of the flap with foil, and secure it with tape.
3. Open the box and place a double layer of plastic wrap over the opening created by the flap leaving 3cm of plastic wrap over the edges that you can tape down to ensure it is airtight.
4. Line the inner bottom of the box with black construction paper for heat absorption.



5. Roll up sheets of newspaper, and line them along the inner sides of the box. Tape them down so that the lid can still close to form an airtight seal inside the box.
6. Take your solar oven to a sunny location outside, and adjust the flap to ensure the maximum amount of sunlight is reflecting off the foil and into the plastic window. Use a ruler to support the flap.
7. To ensure your black construction paper doesn't get dirty, use a clear plastic or glass plate.
8. Cook toast, hotdogs, and nachos, or even warm-up leftovers! Place a thermometer inside your oven to check the temperature. Use oven mitts to take the cooked dish out of your oven.

