

MAKING A SOLAR BOX COOKER

YOU WILL NEED:

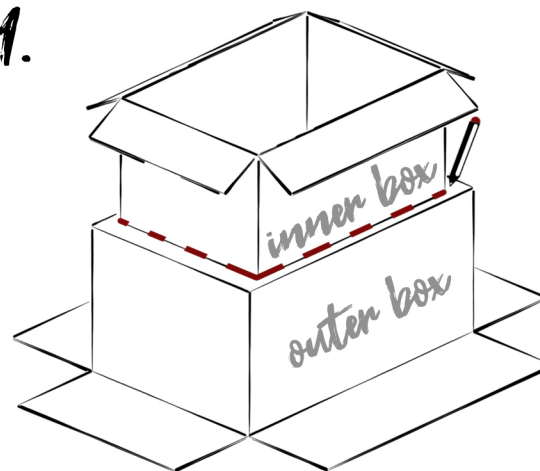
- 2 cardboard boxes (50x35x30cm) & (60x40x30cm)
- cardboard sheet (70x50cm) & extra cardboard pieces
- metal sheet (50x35cm)
- plexiglass (aprox. 54x38cm)
- piece of wire (d:1.5-2mm, l:aprox. 30cm)
- aluminium foil
- non-toxic glue
- heat resistant silicone

TOOLS:

- cutter
- paint brush (to apply glue)
- ruler/ measuring tape
- scissors
- oven thermometer (to test temperature)

MAKING THE BASE

1.

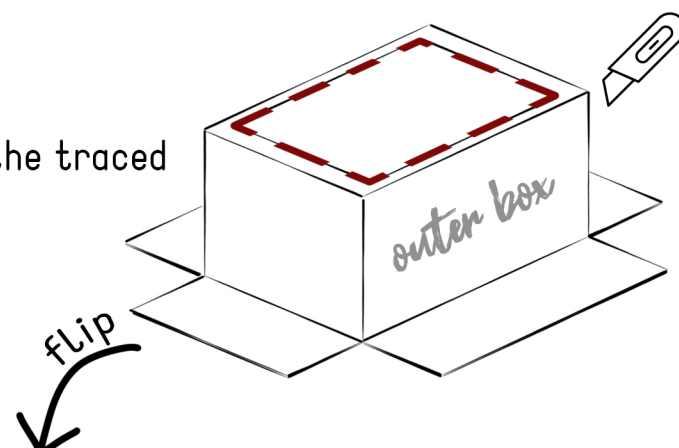


Close the top side of the outer box and place inner box on top.

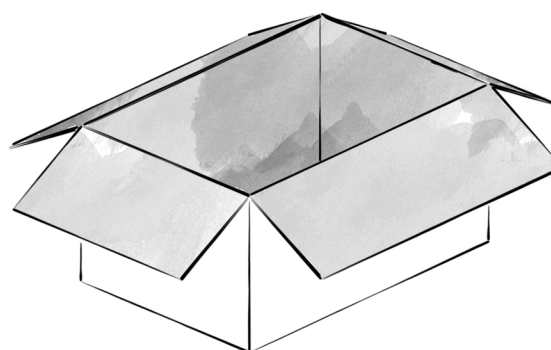
Trace the outline of the inner box on the top off the outer box.

2.

Cut along the traced outline.

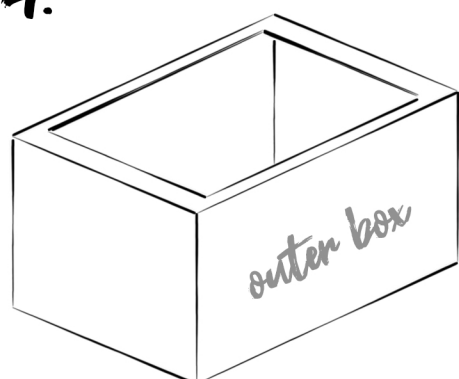


3.



Glue aluminium foil on the inside of the box.

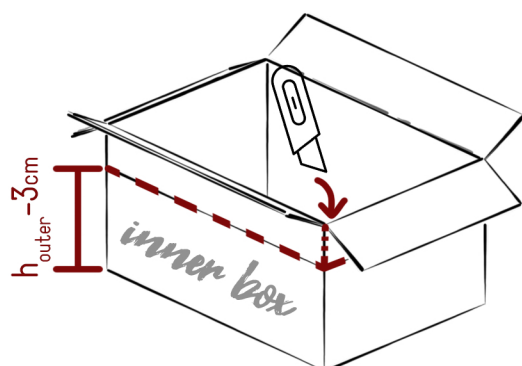
4.



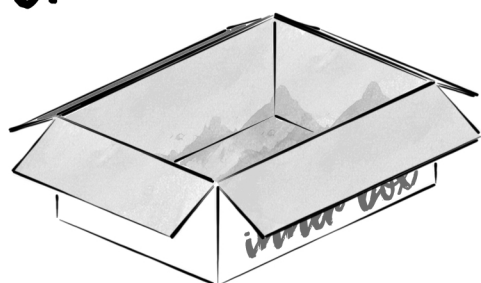
Fold the flaps closed (do not glue them!) And put the outer box on the side.

5.

Mark the perimeter of the inner box at the level that fits into the outer box minus 3cm (space for inbetween insulation).

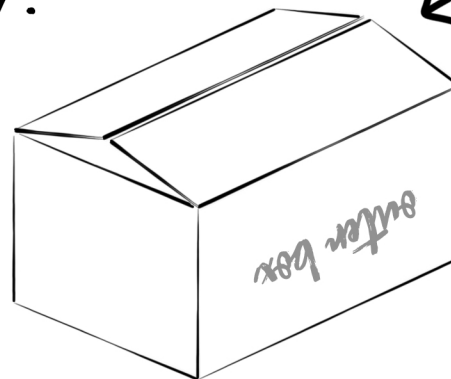


6.



Glue aluminium foil in the inside of the box. Make sure inside surfaces are nicely cover with foil as this side will be visible when the oven is finished.

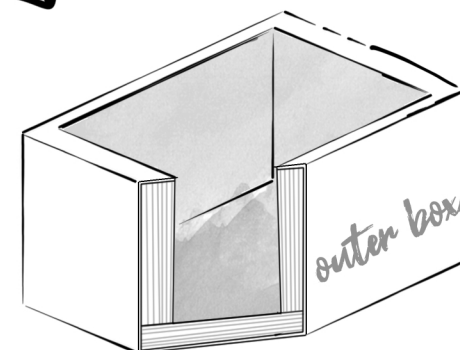
7.



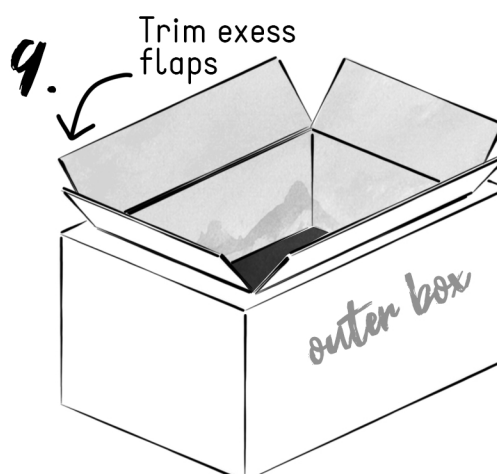
Glue bottom flaps shut.

8.

Make pieces of foiled cardboard the same size as the oven sides and bottom (aprox. 3cm) and place these in the wall & bottom spaces.



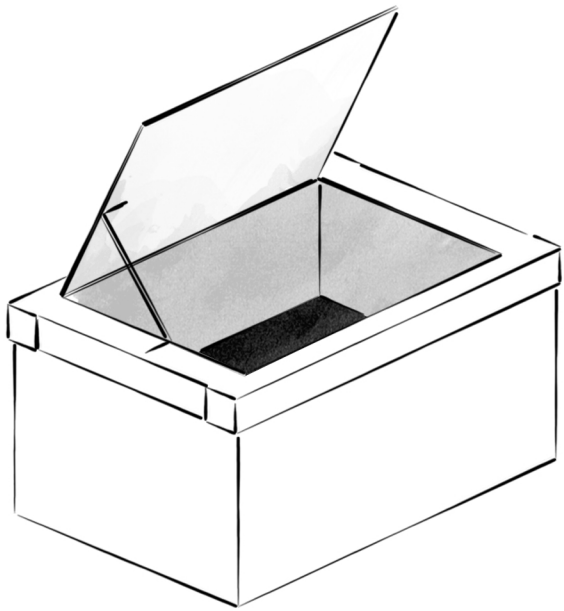
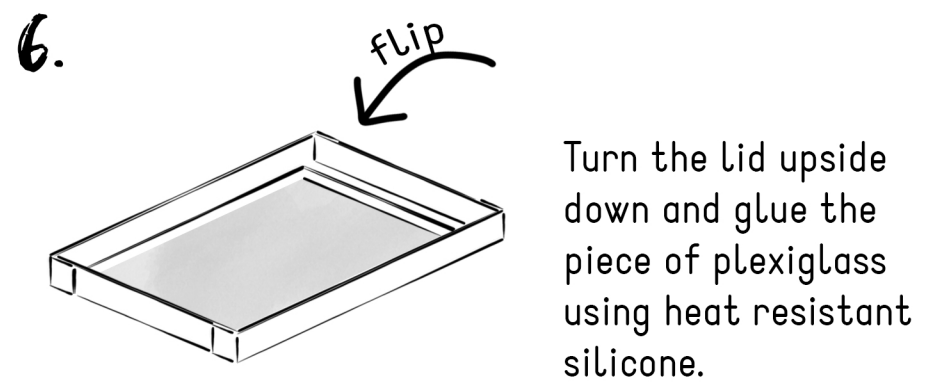
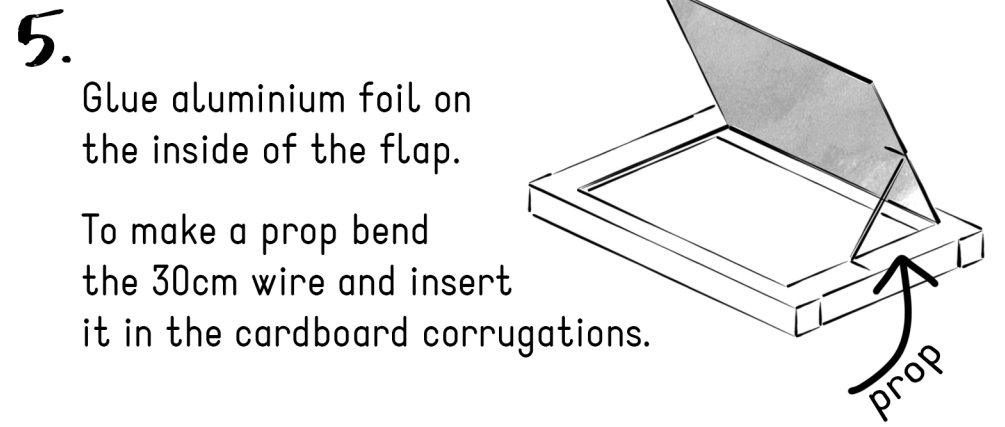
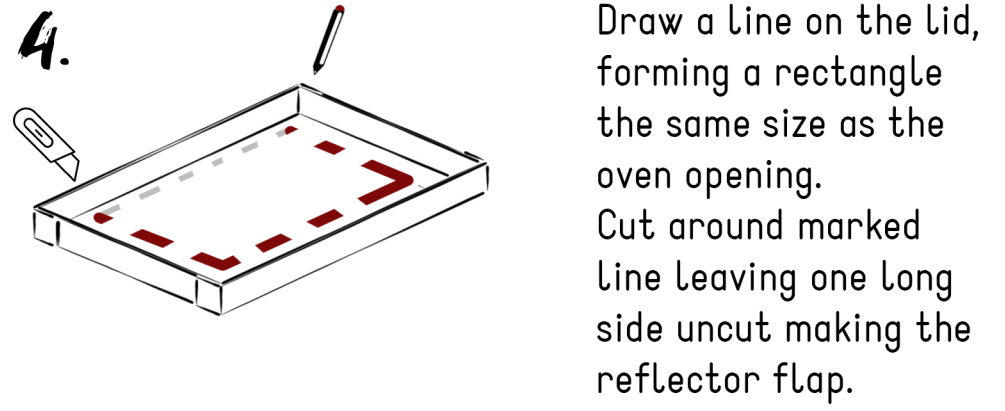
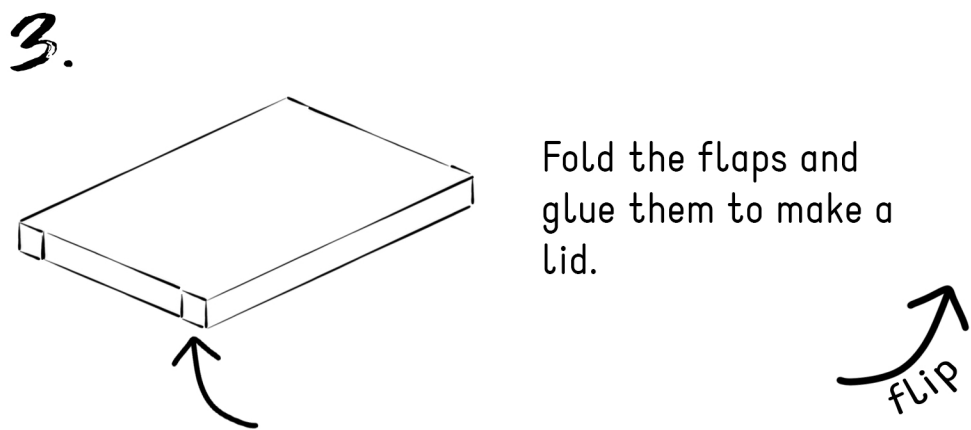
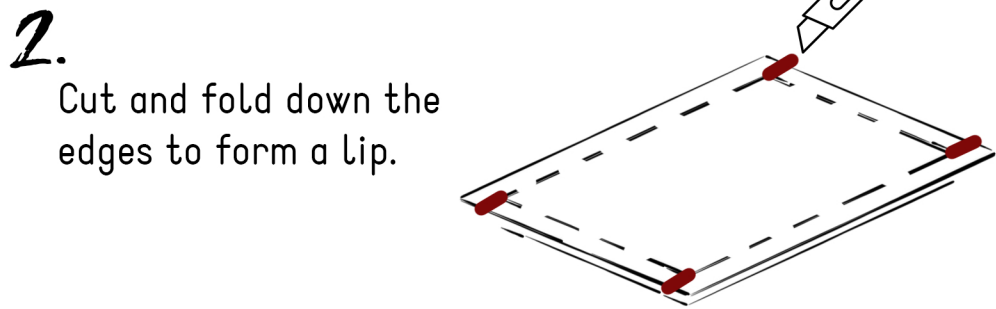
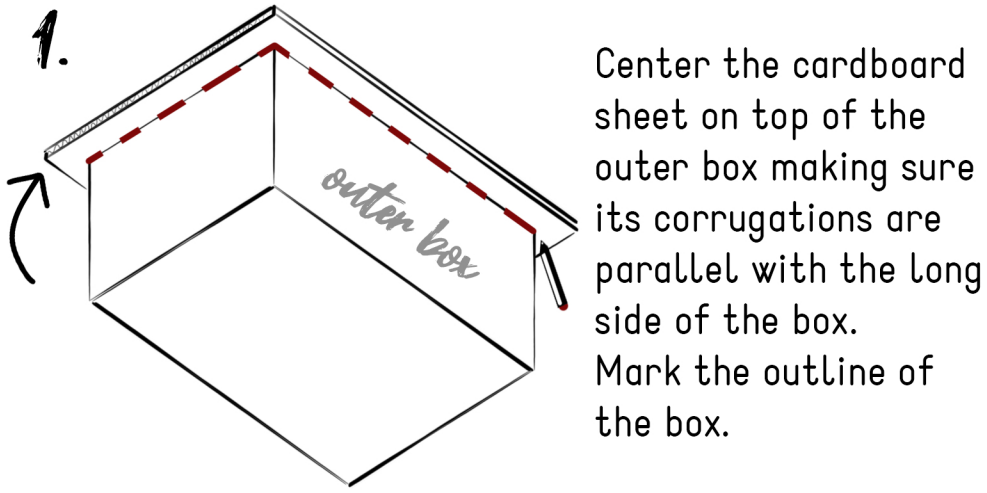
9.



Place inner box inside outer box. Place aluminium sheet painted with black heat resistant paint in the botton of the inner box..

THE BASE IS FINISHED!

MAKING THE LID .



Place the lid on the box and your Solar Box Cooker is ready to go

Enjoy!

Developed for:

Virtual YEA 28 September - 4 October 2020



SUSTAINABLE ENERGY
YOUTH NETWORK

Illustrations by Katerina Anastasiadi