

**Maker**  
{Futures}



**Solar Oven  
Challenge**

# What you need:

- **Cardboard box**
- **Kitchen foil**
- **Clingfilm**
- **Wooden skewer or stick**
- **Scissors**
- **Tape**
- **Chocolate**
- **Biscuits**

# Maker{Challenge} Solar Oven

Age: 5+ yrs  
Risk: low



## {Challenge}

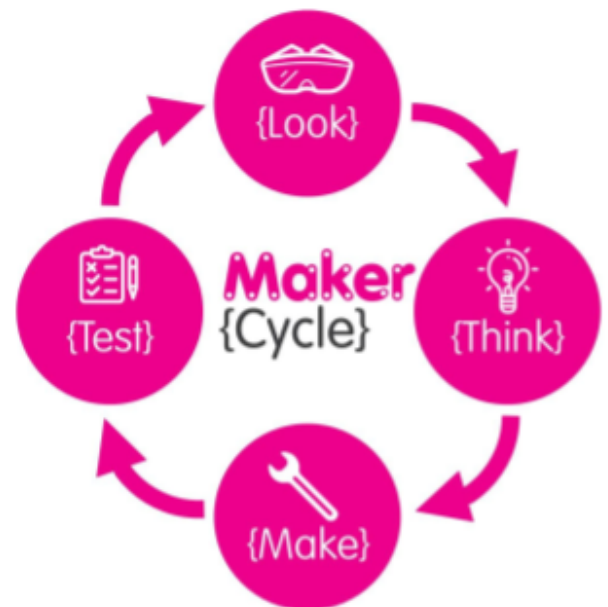
Can you harness the power of the sun to cook you up a tasty snack?

## What you need

- Cardboard box
- Kitchen foil
- Clingfilm
- Wooden skewer or stick
- Scissors
- Tape
- Chocolate
- Biscuits

## Use the Maker{Cycle} to create like a Maker:

- **Look** carefully at your materials for your solar oven. **Think** about how each material might help to harness the power of the sun. E.g. Foil is a good reflector and clingfilm helps to seal in air.
- **Make** your solar oven!
  - Cut a flap into the top of your cardboard box.
  - Tape some foil to the inside of the flap and prop up the flap with a skewer. This will help to reflect the sun's rays into the box.
  - Put some chocolate on top of your biscuits and place them in the bottom of the box.
  - Cover the opening to the box with clingfilm.
- **Test** out your oven! Place it somewhere sunny outside and adjust the angle of the flap to direct sunlight onto the biscuits. How long does it take for the chocolate to melt?



## {Top tip}

Painting the inside of your box black will mean it absorbs more heat and from the sun!