



To complete this activity, you will need:

- A shoe box or box of a similar size
 - Alternatively a long cardboard tube
- Scissors or crafting knife
- Ruler
- Sticky tape
- Aluminium foil
- Pin
- Thin paper or baking paper

Safety advice

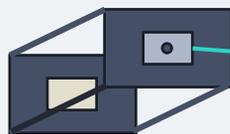


Never look directly at the Sun!

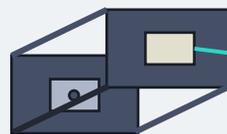
Take care when using the scissors and the pin.

Instructions - Making the Camera

1. If using a shoe box, carefully cut a hole about 3 cm high and 5 cm wide in each side of the box. Make sure that the holes line up with the other so you can see straight through the box. If using a tube, go straight to Step 2.
2. Cover the opening on one side of your 'camera' with a piece of tin foil and attach it with sticky tape.
3. Use a pin to carefully make single pin-sized hole in the centre of the foil window.
4. Cover the other window of your 'camera' with the paper.



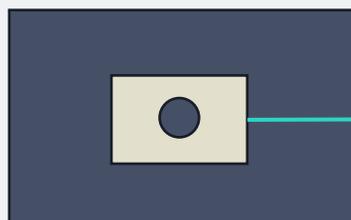
Foil covered window with pinhole



Paper covered viewing window

Instructions - Using the Camera

1. Point the pinhole side of your camera towards the light source, or Sun.
2. View the image by looking at the paper-covered window from at least an arm's distance – NEVER LOOK DIRECTLY AT THE SUN, EVEN THROUGH THE PINHOLE CAMERA



Projected image of the Sun

Instructions - Options with the Camera

1. Leave the second window uncovered and point the pinhole towards the light source. The light will be projected on the floor underneath your camera. You can place a piece of paper on the floor to act as a screen.