

The sun is an amazing 151 million kilometres away from us on earth! But did you know a shadow is created when an object blocks the sun's rays from reaching a surface? Well hopefully the sun will be shining today so that you can create some fantastic shadow pictures! But don't worry if it isn't - you could create the sun's light using a torch.

You will need:

- Sunshine (or a torch!)
- Paper (or a hard clear surface outside)
- Pencils, colouring pencils, crayons, felt tips, paint (chalk for outside)



Step 1: Have a good look around your house. Select a group of items that you think might cast a good shadow and check with an adult that it's OK to use them.

Step 2: Find a window or somewhere that the sun shines in and onto a flat surface such as the floor or a table. Remember that the sun moves round the earth all the time, so the beams of light might move while you are doing your drawings! Which way do you think the light will move?



Step 3: Lay out your paper on the flat surface, in the sunshine. Have a go at placing your objects at the edge of your paper so they cast a shadow. Try moving them around to create the best shapes and shadows. What happens if you move the objects nearer or further away from the sun?



Step 4: Once you're happy with the shadows, get drawing! Try and draw around the outline of the shadow first, then move the object away. You can then colour in the shadow shapes.

Step 5: Try a different group of objects and compare the shapes their shadows make.

Step 6: Can you do this outside? Can you create a shadow shape of yourself? What happens if you move one way or the other, nearer or further away from the sun? You could even ask someone to draw around your shadow shape on the floor if you have any chalk. Can you hold an unusual pose, or hold things in your hands?

You can collect **1 CU credit** for completing this task. To claim your CU credit fill in your Club Challenge Reflection Diary and hand it, with a copy of your drawing to your school for your Learning Stamp Code.

