

MAKE A SUNDIAL

What makes a shadow? Can you make one?
Watch the position of the shadow change as
Earth moves around the sun

WHAT YOU WILL NEED:

- paper or polystyrene plate
- sharp pencil
- adhesive putty, modelling clay or sticky tape
- clock
- marker
- ruler



HOW TO PREPARE:

Step 1: Find a spot outdoors that is not too sheltered, where the sun is shining brightly. Try not to do this task on a windy day.

Step 2: Find the centre of your plate and push the sharp end of the pencil through it so that the pencil stands upright.

Step 3: Secure the pencil in place with some adhesive putty, modelling clay or sticky tape.

Step 4: Place the plate outside in your selected spot and, at the turn of each hour, look at where the shadow of your pencil falls.

Step 5: With your marker and ruler, draw the shadow of the pencil on the plate and write the number of the hour.

Step 6: Repeat until the end of the day.

Step 7: The next day, test out your sundial and make sure the shadows fall on the correct time.