

Science – Year 1/2B Autumn 2

Seasonal Changes

Weather Art

Session 5

Resource Pack

How to make a sundial

You will need:
Crayons
Paper plate
Sharpened pencil
Ruler
Plastic straw



Use a pencil to poke a hole through the very centre of the paper plate. Write the number 12 on the edge of the plate with a crayon. Using the ruler as a guide, draw a straight line from the number 12 to the hole in the centre of the plate.

Write numbers evenly round the plate like a clock face.

At noon, take the plate and the straw outside. Put the plate on the ground and poke the straw through the hole. Slant the straw toward the line you drew. Now carefully turn the plate so that the shadow of the straw falls along the line to the number 12.

One hour later, at one o'clock, check the position of the shadow along the edge of the plate and write the number 1 on that spot. Continue each hour predicting the position and then checking and marking the actual position and time on the edge of the plate.

Can you make a sundial with anything else?

What about using a stick in the ground and a stone to mark 12 o'clock?