

SCIENCE

3RD CLASS

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PARENT PACK

Earth and the Environment

Sundial

TASK:

Design and create a sundial using a paper plate.

CRITERIA:

- The sundial must be made using a paper plate and should be secured to the ground using the pushpins or drawing pins in an outdoor area.
- The numbers on the sundial face should be clear and easy to read.
- You need to use a compass to help you place your sundial in a north-facing direction.
- You must check your sundial every hour and mark where the shadow is on the edge of the plate.

SUGGESTED MATERIALS:

- paper plate
- permanent marker
- sharpened pencil
- ruler
- pushpins or drawing pins
- drinking straw
- compass



Earth and the Environment

Sundial

- Find out about how the position of the sun in the sky is caused by the Earth rotating and how this can be used to show what time of day it is by looking at the shadows. Use the Internet to research how sundials work and how to make a sundial using a paper plate.
- Plan and draw what the sundial will look like and list the materials needed.
- Collect the materials you will need, including a paper plate, a permanent marker, a sharpened pencil, a ruler, some pushpins or drawing pins, a drinking straw and a compass.
- Create the sundial to look like your plan.
- Check that the sundial meets the criteria.
- Show your sundial to the class and give a presentation of how it was made and how it works to tell the time.

