

# Paper Plate Sundial

## Materials

- Paper plate
- Plastic straw
- Crayons, coloured pencils, or markers
- A sharpened pencil
- Plasticine
- Tape
- Ruler



## Instructions

1. Write the numbers 1 to 12 on your paper plate, as they appear on the face of a clock. You can use a ruler to ensure that your numbers are in the correct position.
2. Decorate your paper plate.
3. With the pencil, poke a hole through the exact center of the plate.
4. Place the straw, standing upright, in the hole.
5. Press a small ball of plasticine under the center of the pie plate to secure the straw in place.
6. Tape the straw under the plate to further hold it in place.

## How to Use the Sundial

Sundials work best when placed in full sunshine. Choose a flat surface for your sundial on a sunny day.

Ensure that the number 12 is pointing North. You can do this with a compass, or by going outside at noon and carefully turning the plate until the shadow of the straw falls in line with the number 12. Your sundial is now in the proper position.

You should now be able to tell the time of day by looking at the shadow cast on the surface of the dial by the straw.