

# Make a paper plate sundial

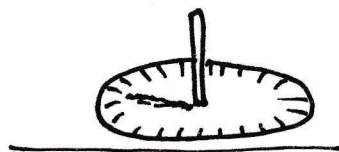
## You will need

A paper plate, A pencil, Crayons and a ball of Plasticine.

## Instructions

1. Decorate a white plate with crayons.
2. Use the pencil to poke a hole through the very centre of the paper plate, and to write the number twelve on the edge of the plate with a crayon.
3. Using the ruler as a guide, draw a straight line from the number twelve to the hole in the center of the plate.
4. At noon, take the plate and the pencil outside. Put the plate on the ground and poke the pencil through the hole into your plasticine. (this will hold the pencil upright)
5. Carefully turn the plate so that the shadow of the pencil falls along the line to the number twelve. (you may need to angle the pencil slightly to cast a good shadow)
6. Where do you think the shadow of the pencil will be pointing in one hour's time. Make a mark on the plate.
7. One hour later, at one o'clock, check the position of the shadow along the edge of the plate and write the number one 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. Did you guess correctly?
8. At the end of the day you will have your very own sun clock. On the next sunny afternoon you will be able to tell time just by watching where the shadow of the pencil falls on your clock.

Is there a  
sundial near where  
you live?



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