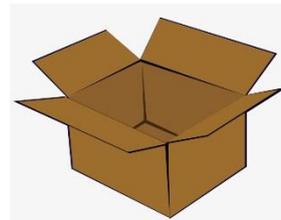




Science Activity

Make a Sundial

Time to prepare: 10 minutes



□ Please, stay safe and ask a grown up to supervise you

Resources/ things you need

Start this activity before noon!

- Paper plate
- Straw
- Sharp pencil
- Crayons or colours
- Duct tape or Cellotape
- Sunny place
- Clock or watch
- Ruler

What to do

With a grown up

1. Poke a hole in the centre of a paper plate with a sharp pencil so the straw will go through.
2. Turn the paper plate upside down. Write the number "12" on the edge of the paper plate.
3. Use a ruler and draw a line from the 12 to the hole in the paper plate.
4. Put the Straw in the hole and take the paper plate outside just before noon. Put it on the ground and slightly tilt the straw towards the line and 12 you drew.
5. At exactly noon, turn the paper plate so the straw's shadow lines up with the line and the 12.
6. Fasten the paper plate to the ground with duct tape or something else so it doesn't move. Try to predict what will happen an hour later.
7. **At exactly 1:00, mark the spot on the paper plate and write 1. Repeat this process every hour on the hour to make the clock for as long as you can and ask a grown up to help you finish it!**
See the picture on the next page to help you.
8. To use the sundial on subsequent days, it must be put in the same place in the same position.

See the picture on the next page of the activity sheet to help you 😊

Background and the link to learning

The sun is the ultimate source of energy for planet Earth.

A **sundial** is an instrument with a pole, in its centre and markings that tell the time like a clock. When the sun shines on the pole (straw) shadows are cast, or appear at different markings on the **sundial**. This is a **sundial**. Its pole (straw) has a shadow that indicates the time on the **sundial**. This was the first method that was used to tell the time.

Picture



Link to other similar activities - Please see make a solar oven, rainbow for refuse & recycling and make an energy saving house and garden.

