

SWELL SUNDIALS



SUPERNOVA
DALHOUSIE UNIVERSITY | HALIFAX, NOVA SCOTIA

BUILD A SUNDIAL FOR YOUR YARD!

MATERIALS

3

- 1 Paper plate
- 1 Pencil
- Art Supplies

20 MINS

PROCEDURE

Step 1

Using art supplies you have available, draw numbers around the circumference (the outside edge) of the paper plate, as you would see on the face of a clock.

Step 2

Decorate the plate/sundial anyway that you wish. Experiment with different colours and designs!

Step 3

Using the pencil, push it through the center of the plate. This will create shadows in the sunlight that will allow you to determine the time of day!

Step 4

Place the sundial in your yard and position it so that the shadow of the pencil corresponds with the current time. If you don't have access to a yard, try doing this in a sunny part of your home!

YOU HAVE BUILT A FUNCTIONAL SUNDIAL!

PURPOSE & SCIENCE OUTCOMES

- Ancient civilizations built sundials to tell time!
- The study of time is called Horology
- The reason why the sundial works over and over is due to the Earth completing a rotation on its axis every 24 hours!
- The rotation of the Earth is what causes day and night. The orbit of the Earth causes the seasons!

ANY QUESTIONS? REACH OUT @SUPERNOVAATDAL