

# PAPER PLATE SUNDIAL



## MATERIALS

Paper Plate

Pencil

Marker

Watch

Tape

## INSTRUCTIONS

Poke a hole in the center of your paper plate using your pencil.

Turn the plate upside down and push the eraser end through the center, with the pointy end of the pencil sticking straight up.

Tape the plate to the ground (or use a couple rocks to keep it from blowing away).

Each hour on the hour, go outside and draw a line along the pencil's shadow on the plate. Write the time next to the line you draw.

Do this several hours in a row. Did you notice any patterns? What did you notice about the length of the shadows and the time of day?

If the weather is good, leave your sundial outside overnight and check if it is accurate the next day.