

Sundial/Quadrant Activity

Materials

Paper Plate (1)
Note Card (1)
Nut/Bolt (1)
Straw (1)
Protractor & Ruler
String
Scissors
Tape

Sundial Instructions

- Cut paper plate in half (save other half for quadrant)
- Using protractor and ruler, measure out angles onto the plate
 - the angles after noon (12 pm) should be mirrored from the angles before noon
- Using the protractor and ruler, measure out a 30° angle onto the note card (this will be your gnomon)
- Use colored pencils to decorate the sundial/gnomon
- Attach the gnomon to the sundial using tape (30° angle should be at the bottom)

Quadrant Instructions

- Cut the half-plate in half, you should have two ¼ of a plate
 - you will only need one ¼ of the plate to make the quadrant
- using the protractor and ruler, measure out 0°-90° along the curve of the ¼ plate
 - mark angles in increments of 5° or 10°
- Use colored pencils to decorate the quadrant
- Using scissors, cut the straw to your desired length
- Using tape, attach the straw piece along the top of the quadrant
- Tie the string to the nut/bolt to make the plumb bob
- Using tape, attach the plumb bob to the corner of quadrant

***MAKE SURE YOUR NAME AND PERIOD ARE ON THE BACK OF BOTH TOOLS

