

Make a Sundial

You will need:

- 9" white paper plates
- Plastic drinking straws
- Pencils
- Sidewalk chalk (2 colors)
- Compasses
- Scissors



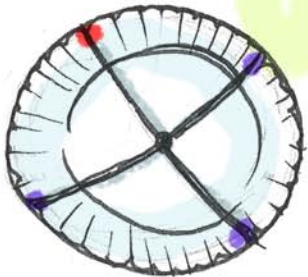
1. Fold the paper plate over so one half is completely covering the other. Pinch the center, making a small crease. Open the plate.



2. Turn the plate so the crease facing you is vertical. Now fold the plate once again so the vertical crease is divided in two horizontally. Pinch the center. When the plate is re-opened there should be two intersecting crease lines.



3. The point of intersection is the center of the plate. Make four marks, equidistant from one another, around the perimeter of the plates using the crease lines as guides. Three of the marks should be in one color and the fourth in a different color. The four marks represent the times of day: 12, 3, 6, and 9.



4. Pinch one end of the straw in half. Make a half-inch cut up from the bottom on each fold line. Press the cut ends together and make another half-inch cut in the middle of the two pieces. This gives you four flaps at the end of the straw. Bend back the cut pieces and tape them to the center of their plates lining them up with the crease marks and making the straw perpendicular to the plate.



Time of Day	Length of Shadow	Where is the Sun?