Create a Sunial

Explorehow to tell time with the help of the Sun!

Materials:

Sun ial Template printable (or draw your own), scissors, pencil, playdough or clay, glue. You will also need a sunny day and access to outside.

Instructions:

Step 1: Cutout the • μ vial template and number markers. If you are making your own, draw a circle 8 inches (20 cm) in diameter, and ite the numbers 1 through 12 on smallepieces of paper.

Step 2:Place your circle in an outside location that will remain sunny as long as possible.

Alternatively, you make alargercircle on the groundand markthe edges with rocks; now, or sticks.

Step3: Makea ballfrom playdough or clay, about 1 inch (2.5 cm) thick. Place it the center of the circle. Stickone end of the pencilin the ball so it stands straightup. The pencilishould cast thin shadow on the paper, similar to the hand on aclock. As the 'un moves the sky, this shadow will elpyou tell time!

Step 4 Wait for your own clock to mark the hour, and wt0 a9 0 Td (in)Tj 0.064 T



Telling Time with the Sun

The Earth orbits, or moves in a circle, around the Sun once every year. same time, the Earth spins around once every 24 hours. Because of this see the Sun in a different position in the sky as time passes. From our position Earth, it takes one day for the Sun to come back to the same place in the sky position of the Sounthe sky is how we tell time!

For thousands of years, people have watched the Sun to tell time. Cultures all over the world divided the day into sections, observed changes in the amount of sunlight, and tracked the movement of the Sun.

Right: An Arctic sunset.

