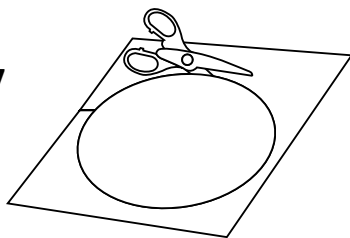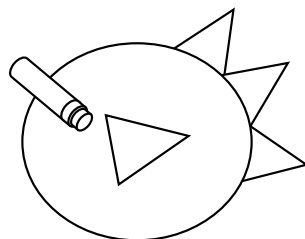**PASSPORT TO SPACE**

Create a Simple Sundial

A sundial tells you the time of day by the shadows from the sun. Here's how to make one!

Instructions

1 Trace around a plate on **heavy cardstock** and cut out with **scissors**. Then cut 12 triangle "rays" from cardstock and place them evenly around the dial's center, matching the positions of the numbers on a clock.
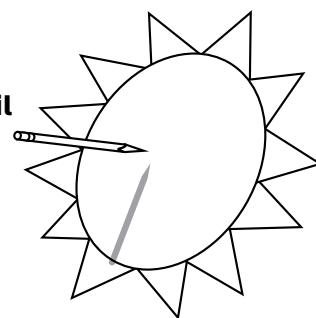
2 **Glue** rays to the circle. Flip over and number each ray just like on a clock, with the 12 on the top ray.
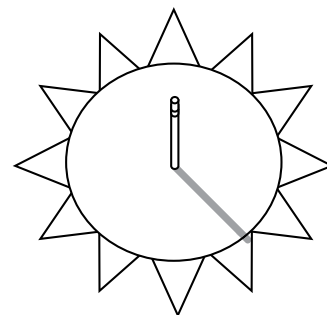
3 Poke a hole in the dial's center and stick a **pencil** through it.

4 Place the sundial on the ground, with the 12 facing north. (Hint: You can find north with a compass or using the maps app on your phone.) Press the pencil into the ground.

5 See where the sun's shadow falls on the sundial—that will tell you the time!

Track the Time

Over the course of the day, measure the length and direction of the shadows during the morning, at noon, and in late afternoon.

| 9:00 a.m. | 12:00 p.m. | 5:00 p.m. |