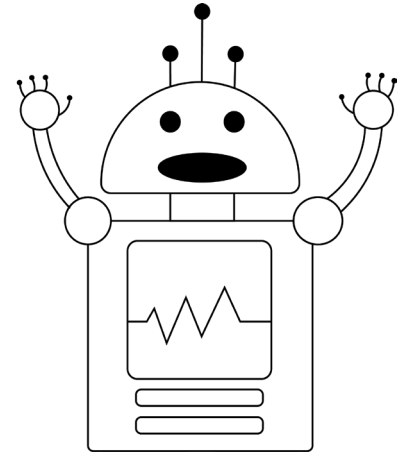


How to Build a Sundial

This activity was created by Olivia.

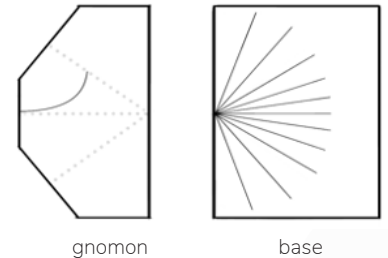
I am really good at following instructions, I have special instructions that tell me what to do all of the time! These special instructions are called a "code"! Are you good at following instructions?



Follow the instructions below to build your own sundial. The only supplies you will need is a pair of scissors.

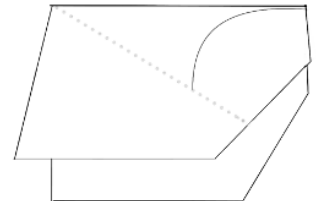
STEP 1

Cut out the gnomon and the base from the template (page 11).



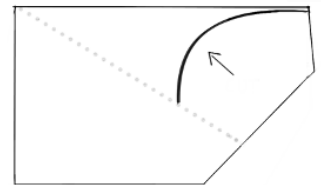
STEP 2

Fold the gnomon in half (on the dotted line).



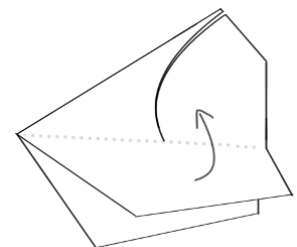
STEP 3

While the gnomon is folded cut on the curved black line (cut both sides of the paper).



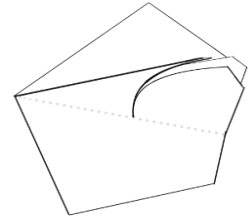
STEP 4

Fold either side, on the dotted line, towards the center.

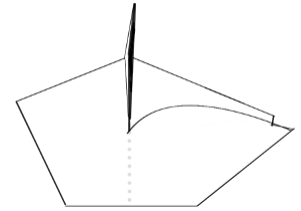


STEP 5

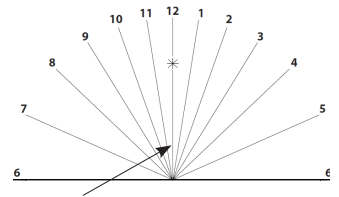
Use the parts you just folded to keep the gnomon standing.

**STEP 6**

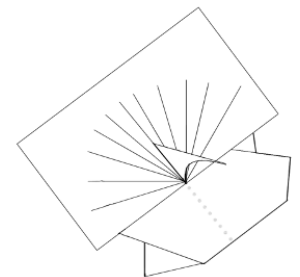
Tuck the circular cut-outs under one another so that the fin-shaped gnomon fit between them.

**STEP 7**

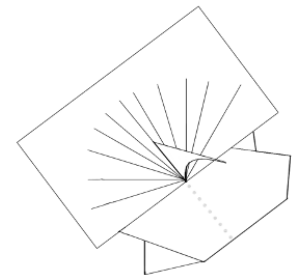
Take the base and cut down the center ("12") line until the star.

**STEP 8**

Slide the gnomon into the base and tape the two pieces together.

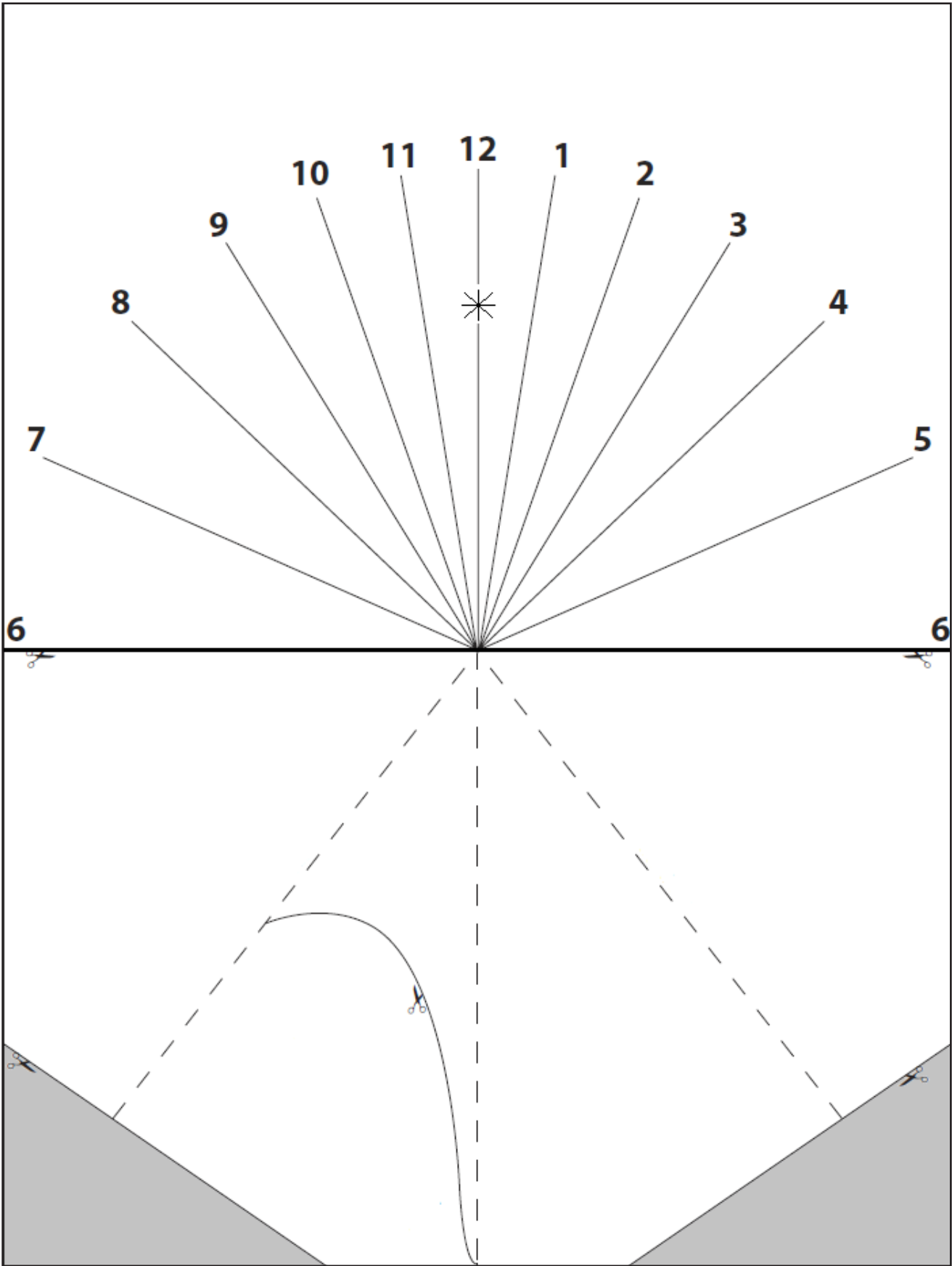
**STEP 9**

Set up your sundial so that the gnomon faces North. The sun will cast shadows that let you tell what time it is.



Fun Fact: Egyptians were the first group that we can reasonably prove made a version of the sundial. They built Obelisks which were tall four-sided tapered monuments and placed them strategic locations to cast shadows made from the sun. They served to partition the day into parts.

Sundial Template



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