How to Build a Sundial

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 sudial. 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.

This activity was created by Olivia.
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.
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