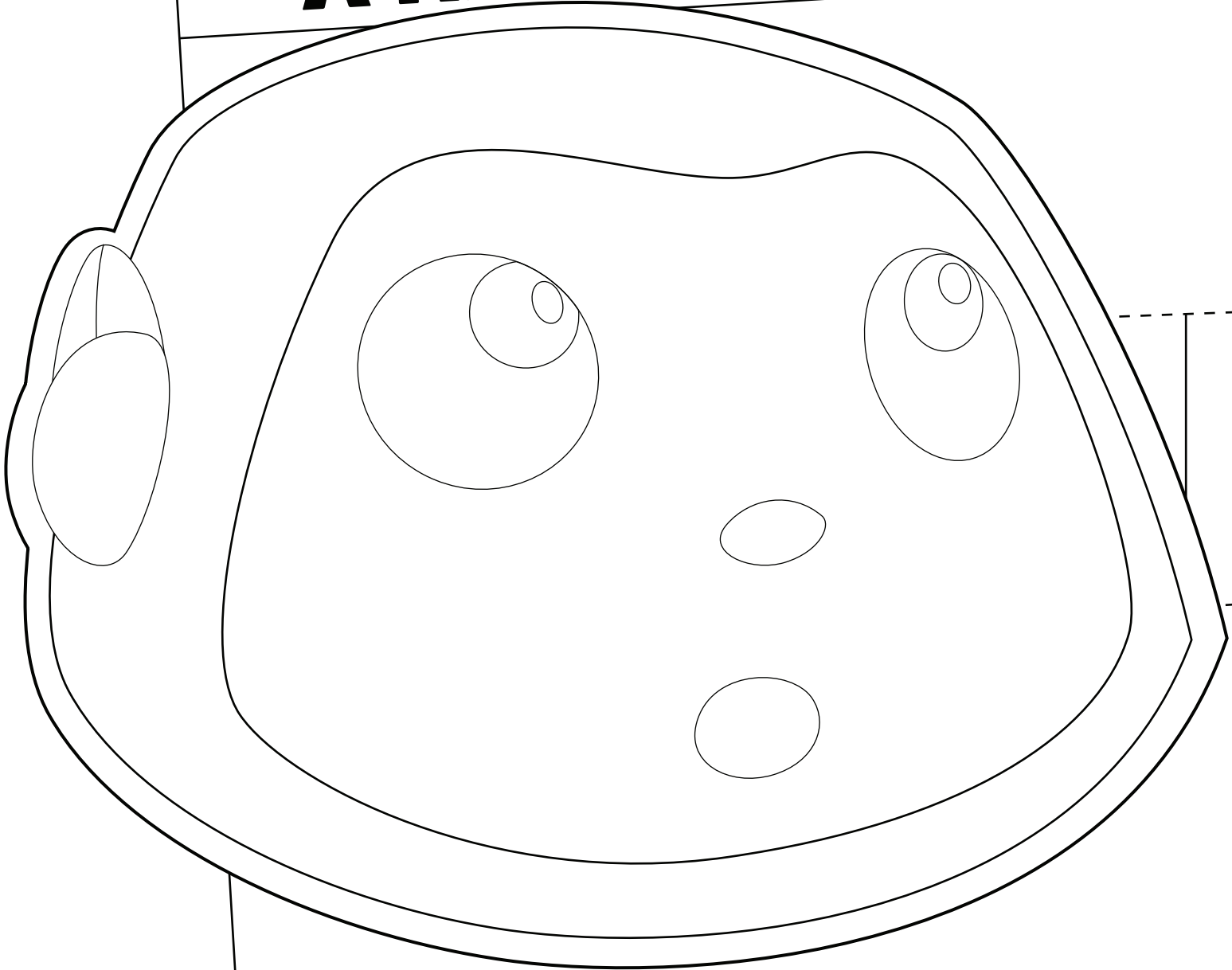
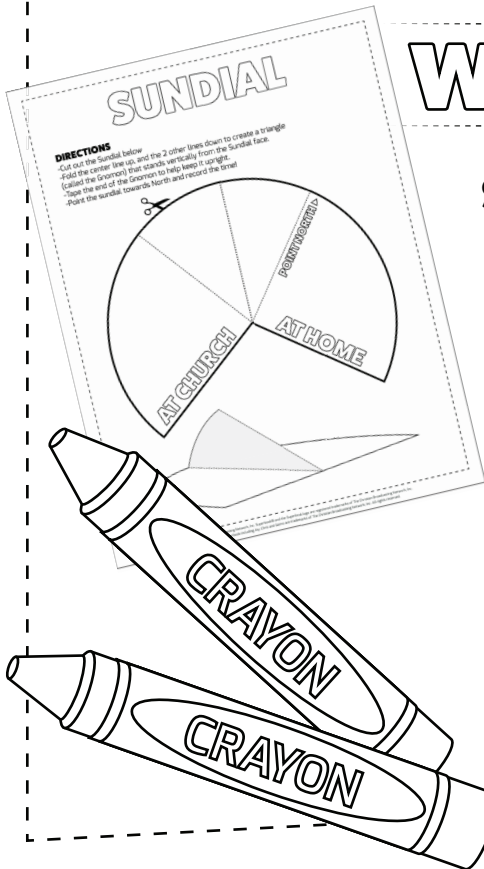


# ESTHER—FOR SUCH A TIME AS THIS



## STEM ACTIVITY

# WHAT YOU NEED



## SUNDIAL SHEET

See page 3.

## SAFETY SCISSORS

... or ask an adult for help with regular scissors.

## CRAYONS

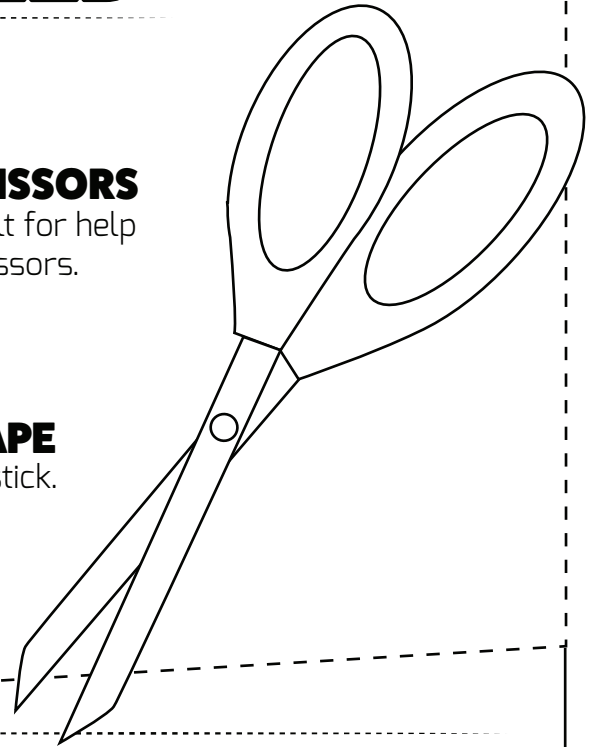
Pick your favorite colors!

## TAPE

... or a gluestick.

## COMPASS

You can use a compass app on your phone too!



# DIRECTIONS

## WHAT IS A SUNDIAL?

The **sundial** shows the current solar time during the day. It does this because the sun appears to move through the sky. At different times of the day when the sun is shining, a shadow cast across the dial in different places.

## STEP 1

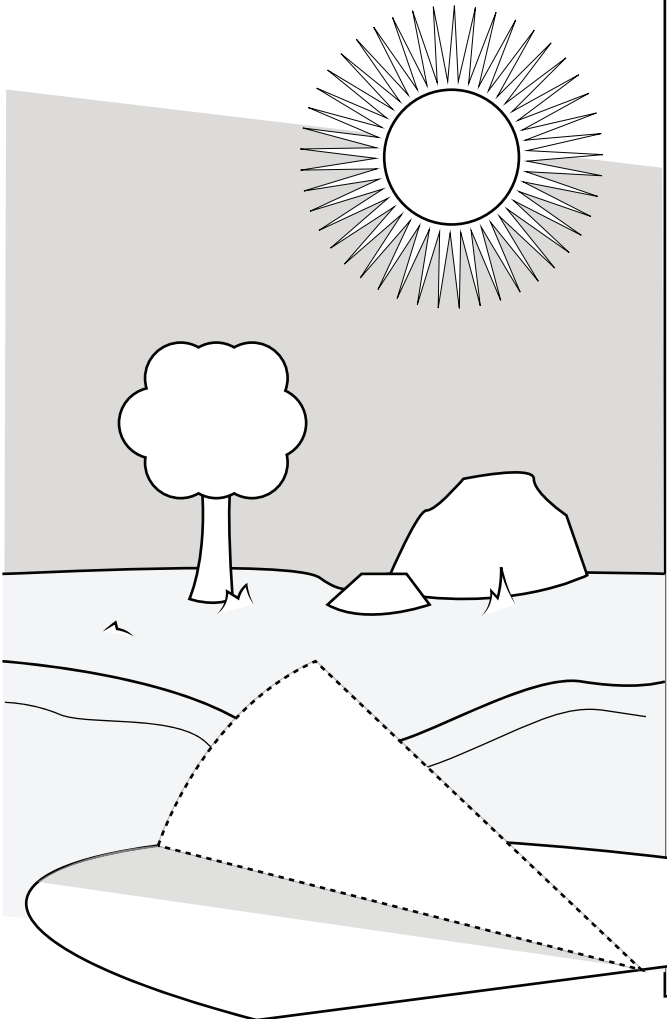
Go outside and mark on the dial where the shadow is when you go outside during class.

## STEP 2

Then when you get home, have your parents help you find north and mark the sundial again. Look at how much time has passed!

## GREAT TIMING!

Sundials have been around for a long time, the ancient Egyptians had sundials and other cultures developed them further, including the Greeks and Romans.



# SUNDIAL

## DIRECTIONS

- Cut out the Sundial below
- Fold the center line up, and the 2 other lines down to create a triangle (called the Gnomon) that stands vertically from the Sundial face.
- Tape the end of the Gnomon to help keep it upright.
- Point the sundial towards North and record the time!

