

Daisy Space Science Explorer

Part 1 of 2



HELLO, DAISY!!

**Lets begin with the Girl Scout
Promise and Law. Can you please
stand?**

**Click on the link below and join
to sing the Promise and Law**

<https://youtu.be/DxZlculvTYg>



GIRL SCOUT
Promise

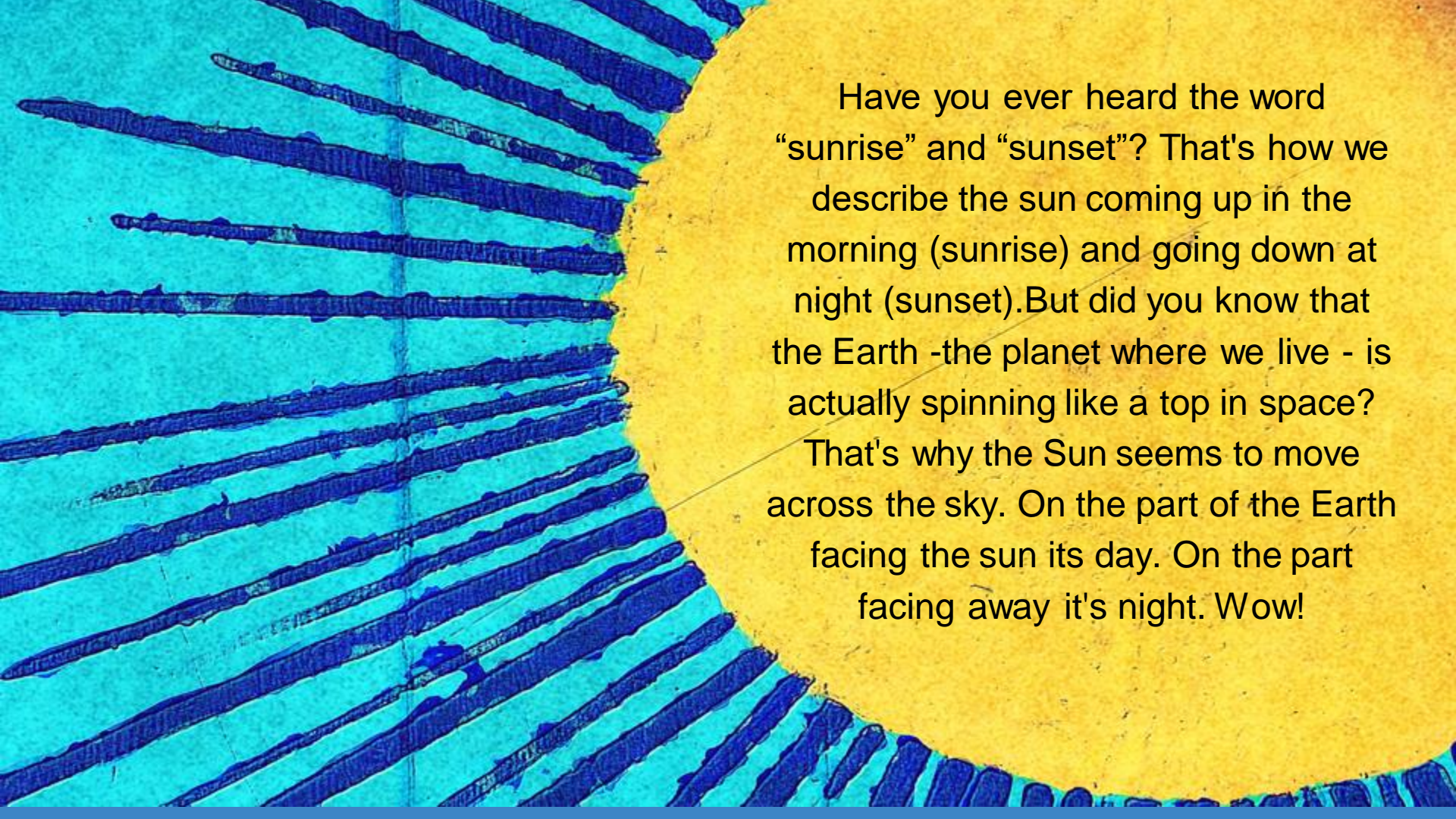
*On my honor, I will try:
To serve God and my country,
To help people at all times,
And to live by the Girl Scout Law.*

GIRL SCOUT
Law

*I will do my best to be
honest and fair,
friendly and helpful,
considerate and caring,
courageous and strong, and
responsible for what I say and do, and to
respect myself and others,
respect authority,
use resources wisely,
make the world a better place, and
be a sister to every Girl Scout.*



Space scientists are people who study outer space - What's in the sky? In this badge, you can be a space scientist as you look at the sky and talk about what you see!



Have you ever heard the word “sunrise” and “sunset”? That's how we describe the sun coming up in the morning (sunrise) and going down at night (sunset). But did you know that the Earth - the planet where we live - is actually spinning like a top in space? That's why the Sun seems to move across the sky. On the part of the Earth facing the sun it's day. On the part facing away it's night. Wow!



STEP 1

EXPLORE THE SUN

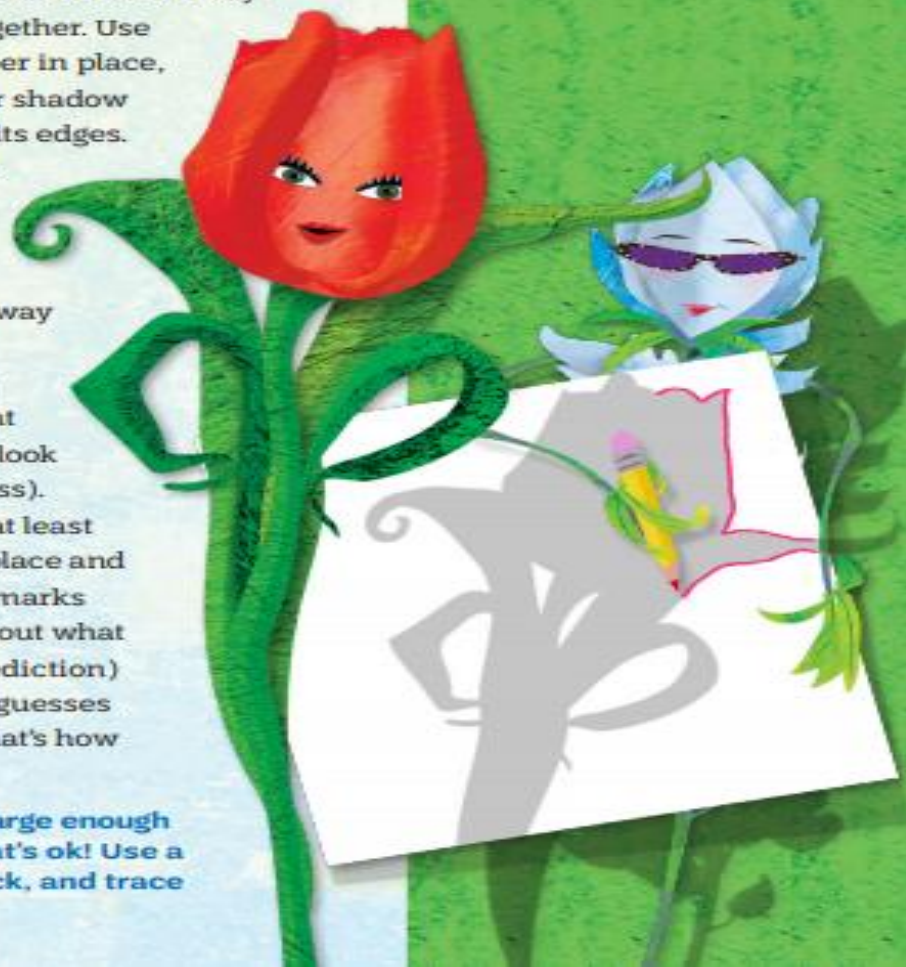
Make a day sky book. Go outside and look at the sky three times during the same day. You could do it after breakfast, after lunch, and near dinnertime. Do not look directly at the Sun though! Just like a scientist, make a prediction (guess) for what the sky will look like each time you go outside. Then, see if your guesses were correct. Scientists check their guesses (predictions) all the time—that's how they learn. Draw pictures of what you see at the different times of day. Does the sky look different each time you go outside? How? Did the colors or clouds change? Talk about the sky with your family or friends.

STEP 2

SHADOW POSTER

Make a shadow poster. On a sunny day, go outside and stand in front of a big piece of paper—big enough so that you can see your shadow on it. You may need to tape a few pieces together. Use tape or rocks to keep the paper in place, then have a friend trace your shadow or place small rocks around its edges. You're going to come back to your poster in a bit. When you do, you'll want to stand in the same place. So, be sure to mark your feet—this way you'll remember where you were standing. Do you think the shadow will look different later in the day? What will it look like? Make a prediction (guess). Later in the same day (wait at least an hour), stand in the same place and have your friend make new marks around your shadow. Talk about what you see! Was your guess (prediction) right? Scientists check their guesses (predictions) all the time—that's how they learn.

TIP: If you don't have paper large enough to trace your shadow on, that's ok! Use a small toy, like a doll or a truck, and trace that shadow instead.





For More **FUN**:


Make a Pinhole Projector

Scientists know that it's dangerous to look at the Sun, because it can damage their eyes. They use special tools to study the Sun safely. You can do this, too, with a tool called a pinhole projector. With an adult, follow these instructions to make your projector. Then head outside and try it out! After you try it, talk about what you saw.

You will need:

- A sunny day
- Two sheets of stiff white paper
- A pin

- 1** Have an adult use a pin to make a hole in the center of one piece of paper.
- 2** Go outside (with your adult). Put your back to the Sun and hold the paper out so the Sun shines on it. Just make sure you don't look at the Sun through the hole or any other way.
- 3** Use the other piece of paper to "catch" the image of the Sun that will come through the hole. Move the paper back and forth and see how it changes the image. What you see on the paper is an image of the Sun!



This is a safe way to see the Sun without hurting your eyes—using tools just like scientists do.

DAY & NIGHT

Click on the link to watch video

<https://youtu.be/Wr-CRKsTYGs>



GREAT JOB DAISY!
JOIN US NEXT WEEK
FOR PART 2 OF
SPACE SCIENCE
EXPLORER

The Day and Night Dance

Imagine that your head is the Earth and you live on your nose! Start by putting a smiley face sticker on your nose. Ask an adult to set up a lamp without a shade in a dark room—and pretend the lamp is the Sun. (The light bulb may get hot, so don't touch it.) Now turn around slowly to make it daytime and then nighttime on your nose! That's what the Earth does all the time. Like you are doing, it spins!

