



Get ready for an out-of-this-world experience on April 8!

This April 8th, a solar eclipse will be visible across the United States, with totality spanning from Texas to Maine. A solar eclipse happens when the Moon passes between Earth and the Sun, casting a shadow on Earth.

Learn more about eclipses. Explore [these resources and activities](#) from NASA.

Make your eclipse plan. Check if [your council](#) has any events leading up to the Eclipse. Ask your school to participate on the day of the Eclipse. Find [local and virtual events](#) through NASA.

Stay safe! Looking at the Sun can damage your eyes, so it’s important to understand [eye safety](#). Use eclipse glasses and follow the instructions below to make a pinhole projector. These tools can help you study the eclipse safely—just like a scientist!

Busy April 8? Celebrate nature and space for [Citizen Science Month](#) this April and explore citizen science all year with [Girl Scouts](#)! Check out the next page for more information and ideas.

Activity: Make a pinhole projector

You will need:

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

From the Daisy Space Science Explorer badge, activity courtesy of Stanford Solar Center.

Instructions:

1. Use a pin (or have an adult) 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!



Celebrate Citizen Science Month!

Scientists use data or information to make discoveries about our natural world. Citizen scientists are non-professionals who help by collecting and analyzing data about everything from squirrels to space to sunflowers. Nobody knows everything, but together we can make a difference for humans, plants, and animals.

April is [Citizen Science Month](#), and you can join in the celebration! You might observe clouds or the night sky, take photos of trees in your area, or do something completely different—it's up to you, and the Universe is yours to explore.

Learn more about citizen science and find projects through [Girl Scouts on Scistarter](#).



Keep the Fun Going

Check out these Girl Scout activities to explore citizen science, the environment, space, and more.

For everyone

Girl Scout Tree Promise (K-12)

Plant, protect, and honor trees as a climate solution.

Girl Scout Climate Challenge (K-12)

Learn about and act to address climate change in your community.

For Girl Scouts

Girl Scout Math in Nature badges (K-5)

Explore shapes, numbers, and design with nature.

Girl Scout Space Science badges (K-12)

Learn about the sky, our universe, and more.

Not a Girl Scout?

Learn more at [girlscouts.org/join](https://www.girlscouts.org/join).



Searching for STEM? Download FREE STEM activities and access FREE resources such as the new STEM Playbook for supportive adults on [girlscouts.org/STEM](https://www.girlscouts.org/STEM).