



girl scouts  
of western ohio

## Make a Telescope



**Use your creativity and explore like a NASA scientist.**

**Time Allotted: 20 minutes**

**Say:**

- *Space scientists study the Moon. They also study the planets, stars, the Sun, and everything found in the sky.*
- *Today we're going to learn about the most important tool for space scientists. Can any of you guess what it is?*

After she has a chance to guess, **Say:**

- *A telescope!*
- *Today we're going to make our own pretend telescopes and, using our creativity, we'll pretend to be NASA scientists as we observe the sky.*
- *Here in the United States, we have a program called NASA. NASA stands for National Aeronautics and Space Administration. NASA scientists and engineers work on rocket ships, and use tools to learn about the planets, the Moon, stars, the Sun, and everything found in the sky.*
- *The telescope we will make won't have powerful mirrors or lenses like the telescopes NASA scientists use. These will limit what we can see to help us focus on very specific shapes in the sky.*
- *Decorate your telescope however you'd like. It should represent something special about you as a scientist.*

After your girl is finished, and if the weather permits, take your telescope outside!

When it's dark outside, **Say:**

- *Ok, NASA scientist, raise your telescope to your eye and let's look at the sky! What does the Moon look like? (If it is visible.) Be a good scientist and describe it to me.*
- *How many stars do you see?*
- *What else can you see?*

If the weather keeps you inside, have your girl look out the window or use her telescope to explore the room and tell you what she sees.

**Materials**

- The stars
  - Toilet paper rolls
- OR
- Roll up a piece of construction paper, and tape along the seam to make a tube
  - Crayons, paint, paint brushes, glue, stickers, etc.

