



## Space Science Investigator



### Badge Overview

Venture through the Solar System and beyond, and see that space is even bigger than you may have imagined. When you've earned this badge, you'll understand that the Earth orbits the Sun, and how far away the Sun, Moon, planets, and stars are from our home planet, Earth.

### Badge Components

#### 1. Model the Solar System

Make a model solar system. There are lots of ways you can do this, just choose one and see how to do it by following the links below:

[Sugar Cookies](#)

Materials: 1 c Butter Softened, 1 tsp Vanilla Essence, 1 c White Sugar, 1 Egg, 2 tsp Baking Powder, 3 c Plain Flour

[Paper Mache](#)

Materials: Newspaper, flour, Paint Brush, Paint, and Balloons

[Homemade Play Dough](#)

Materials: 3 c Flour, 1 c Salt, 6 tsp Cream of Tartar, 3 tbsp of Oil, and 3 c Water

[String Globes](#)

Materials: Glue, Color String or Plain String and Markers, and Balloons

#### 2. Circle the Sun

- Watch this [video](#) or this [video](#) to get an idea of the Scale of the solar system.
- Explore some of the planets in the solar system on this [website](#).

#### 3. Discover the stars

Make your own telescope using these [instructions](#).

#### 4. Use the tools to explore

Download one of these augmented reality star gazing apps and go outside at night and see what you can see! Try using your homemade telescope to see a little more.

- [Star Chart](#) app (Android)
- [SkyView](#) app (iPhone)

#### 5. Share your sky

Watch this Video to learn how to make a Foldable.

- You are going to use 5 pieces of paper instead of 3.
- Fill your foldable with information on the sun and 8 planets. Make sure you include some pictures.
- Share your beautiful work with someone in your house.

### Materials

- 2 Kitchen Towel Rolls
- Tape
- An Old Pair of Reading Glasses
- Materials for making a solar system (See Badge Components step 1)

### Florida Educational Standards

The content of all Girl Scout national proficiency Badges and Journeys have been correlated by grade level to national and state learning objectives.

[Click here](#) for more information on how Girl Scout Badge-work supports Florida's educational standards.



We love to see Girl Scouts in action. Snap a photo and send it to [marcomm@gssef.org](mailto:marcomm@gssef.org).

Include her name, troop# and the name of the badge she's working on and we'll feature her.

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