



SPACE EXPLORERS!

Brownies (\$20 per Scout; \$18 for CMSC members)



Discover (1/2 hour):

Designed to get girls to seek new challenges, discover new interests, and begin to think about how they can impact the world with the knowledge they've learned.

1. Stars— Learn about what a star is, including the Sun.
2. The Moon – Learn about the Moon including its phases and geography.
3. Our Solar System – Learn about the planets that make up our solar system and what we'd see if we went to each.
4. Careers – Discover what careers and employment opportunities can be earned through this field of study.

Connect (1 hour):

Designed to promote team building, problem solving skills, and learn how space exploration connects us globally.

1. Stars – Track the movement of the sun by recording a shadow over time. **Tracking Sun Movement:** A large stick (possibly a yard stick or actual stick from nature) will be placed into the ground pointing up. At the beginning of the workshop, we will use chalk to mark on the ground where the stick's shadow is. At the end of the workshop, we will check to see how far the shadow has moved.
2. The Moon –Create your own "moon footprint" that you can take home with you. **Moon Footprint:** Each girl is given a portion of wet sand on a plate. The girls will step carefully into the sand, leaving a footprint of their shoe. A spray adhesive will be applied to the sand to harden it, leaving the print intact.
3. Our Solar System –**Create Your Own Constellation:** a piece of paper is taped over the light end of a flashlight. Each girl will then carefully poke holes into the paper to create an image. Then, they will turn the flashlight on and project the "constellation" onto a wall.
4. Space Travel – Learn about different space crafts.
5. Living in Space – Learn about different space stations and what it would be like to live in space (including space suits).

Take Action (1 hour):

Designed to get girls thinking about how they can make a difference, identify needs, inspire others to think outside the box, and be empowered to make a difference.

1. Living in Space –Design and draw your own space craft/station or space suit and share it with the group.
2. Space Travel –Build a Pitsco Rocket and launch it. **Pitsco Rocket:** A miniature rocket is made using straws and clay (straw for the body of the rocket and clay for the nose). They are launched off of a platform that uses air pressure to launch them. The angle of launch and size of the rocket can vary. Figure out flight paths.