



ASTRONOMY

CADETTES (\$32 per Scout; \$30 for CMSC Members)

Cadettes can apply this program to the "It's Your Planet – Love It!" Journey. Suggestions are to apply this session to the awards you can potentially earn along the Breathe Journey. Air is all around us, so make sure to ask questions about why we can't breathe in space, if there is air in space, and follow up with asking why or why not. What solutions have we come up with to solve these problems?

Discover (1 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. Deep Space – Learn about what lies beyond our solar system (including black holes, quasars, nebulae, and galaxies), and about distant stars through identifying constellations.
2. Learn about communicating in space and what it sounds like in space, and why we can't breathe in space.
3. Space Junk – Learn about comets, meteors, asteroids, and other space debris one might encounter in space.
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 the constellations connect us globally.

1. Our Solar System – Learn about what makes up our solar system by taking a "tour" through it (includes the sun, planets, meteors, asteroids, comets)
2. Space Travel – Learn about how we get into space, and also what we would wear in space (discussion about the history of space suits). Design/draw a spacesuit of your own. Present your drawing to the group.
3. History – Learn about the history of the study of Astronomy, going as far back as how ancient cultures explained celestial bodies and events.

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. Space Travel – Learn what it takes to travel through space (including vehicles and suits). Then, build your own model rocket to be launched. **Model Rocket:** model rockets packs will be distributed to the girls and instruction on assembling them will be given. Learn how air/wind affects the flight of the rockets because air has mass.
2. Telescopes – Learn about the different types of telescopes. Then, use a telescope to look at 3 different celestial objects (weather permitting).