



Two badge activity options for Junior Girl Scouts:

- 1) Juniors can earn the Challenger Center Junior Girl Scout Space Explorer Badge (former Aerospace and Sky Search badges)
Several hands-on projects will allow Juniors to explore the wonders of the universe and learn about aerodynamic and space flight. (Most, if not all, of the following activities will be completed.)
 1. Make and fly a simple glider
 2. Talk to older people about air travel before 1950
 3. Watch a space launch (on video)
 4. Learn about NASA
 5. Learn about women pilots and astronauts
 6. Learn about Space Flight “Spin-offs” and astronaut food
 7. Mapping the Skies – learn how to use a star map
 8. Constellations – identify at least five
 9. Direction, Please – learn about the North Star
 10. Planets – learn about the planets visible to the naked eye
 11. Connect the Dots – sky explanations from ancient cultures
 12. Tools of the Trade – learn about telescopes
 13. Time for the Moon – learn about the Moon
 14. The Sky is Falling – learn about and observe meteors, meteorites, and comets
 15. Star Stamps – create space-related letter, envelope, and stamp
 16. Mission Space – learn about current space missions

- 2) Juniors can work toward earning the It's Your Planet (Get Moving) Journey Badge
Several hands-on experiments will allow Juniors to explore the role of energy in Earth's processes.
 1. Learn about the types of energy and the nature of Light (Electromagnetic Spectrum)
 2. Discover the importance of Energy Conservation (Light bulb types and recycling paper)
 3. Create an Energy Audit
 4. Explore the effects of light pollution



Two badge activity options for Cadette Girl Scouts:

- 1) Cadettes can earn the Challenger Center Cadette Girl Scout Space Explorer Badge (former Cadette Space Exploration badge)
Several hands-on projects will allow Cadettes to explore the wonders of the universe. (Most, if not all, of the following activities will be completed.)
 1. Investigate Astronomical Phenomena
 2. Learn about the history of Space Exploration
 3. Explore the Sun/Moon/Earth Relationship
 4. Learn about the types and history of telescopes
 5. Experiment with the Principles of Flight
 6. Help with a Brownie or Junior Girl Scout mission here at the Challenger Center
 7. Learn about careers relating to Astronomy and Space Exploration

- 2) Cadettes can work toward earning the It's Your Planet (Breathe) Journey Badge
Several hands-on experiments will allow Cadettes to explore why air is important to the planet and why it is necessary for them to protect this natural resource.
 1. Investigate the fundamental properties of air
 2. Discover the power of wind energy
 3. Learn about the composition of air (the gases that make up the atmosphere)
 4. Experiment with air pressure