

Senior Sky Badge

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| Supplies Needed | <ul style="list-style-type: none">● Smartphone with the Night Sky app or Constellation map● Paper● Color Pencils● Tape● Pencil● Ruler● Cereal box● Scissors● Super glue (optional)● Flyer publishing software (optional) |
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Watch the Skies

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| Supplies Needed | <ul style="list-style-type: none">● Smartphone with the Night Sky app● Or Constellation map |
| Activity | <p><u>Focus on the night sky</u>
Identify 10 constellations and 8 noticeable stars. Use a stargazing app like Night Sky to help you identify the constellations and stars.</p> |
| Want to do more? | Read about the myths about the constellation you found in the sky. |

Investigate the Science of the Skies

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| Supplies Needed | <ul style="list-style-type: none">● Paper● Color Pencils |
| Activity | <p>Watch a YouTube video about the atmosphere</p> <p>Create a “Map of the Sky”. As you label each of Earth’s 7 layers, make sure you include the layer’s properties, and how they protect us. Also label which layer reflects radio waves, allowing radio signals to be sent around the earth</p> <p>Share your Map of the Sky on social media. Make sure to tag @GSCSNJ, using the #GSCSNJBadgesAtHome and #SeniorSkyBadge.</p> |

Explore the Connection between People and Flight

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| Supplies Needed | <ul style="list-style-type: none">● Tape● Pencil● Ruler● Cereal box● Scissors● Super glue (optional) |
| Activity | <p><u>Build a model plane, rocket, or space exploration vehicle</u>
Watch a YouTube video on how to build a model plane out of a cereal box.</p> <p>Share your Model plane on social media. Make sure to tag @GSCSNJ, using the #GSCSNJBadgesAtHome and #SeniorSkyBadge.</p> |

Want to do more? Measure the distance your plane flies over three different test flights. Compare your plane flights to a fellow Senior Girl Scouts distances. Who's flew the farthest? Is there a difference in your design that could attribute to the difference in flying distance?

Help Clear Sky Pollution

- Supplies Needed
- Paper
 - Color pencils
 - Or; Flyer publishing software

Activity When looking at the night sky in your area, are the stars easy to see or hard to see? [Light pollution](#) can be a real problem for stargazers. Light pollution is not only a problem for stargazers, it can also disrupt an ecosystem. Find out how to minimize light pollution in your area to help your local ecosystem.

Find out your community's laws on light pollution. The state of New Jersey offers a [sample light ordinance guide](#) they recommend to towns in our state. Why do these laws exist?

Research

Come up with 5 ways you can reduce light pollution. Create a flyer to advertise to your community the importance of reducing light pollution and the easy, attainable ways your community can help. **Share your Light Pollution Flyer on social media. Make sure to tag @GSCSNJ, using the #GSCSNJBadgesAtHome and #SeniorSkyBadge.**

Want to do more? Our country is dependent on fossil fuels which leads to air pollution. Air pollution leads to both health problems and environmental issues, such as climate change.

In our current state of voluntary quarantine has had some positive effects on the environment. Research the positive environmental impacts the COVID-19 quarantine has had on the planet. How can we keep up with the beneficial impacts when life returns to normal?

Create Sky Art

- Supplies Needed
- Tape recorder, smart phone with voice memos or camera, or camera with video capabilities
 - Internet enabled device

Activity **Share sky stories from ancient and modern cultures.**
Remember Chicken Little, the chicken who believed the sky was falling? In the original fable, the chicken was a hare. An Australian tale tells about a morning star named Barnumbirr who was so bright, people asked her to come out so they could see better. But she was afraid of drowning and refused to go with them. So they tied a string around her, which is why she cannot rise high and sticks close to the horizon. The Anishinabe culture of central North America passed on stories of Grandmother Moon, who dwells in the heavens near her daughter, Mother Earth, and Grandfather Sun, who brings the morning light to his children.

Collect five more tales of the sky and record yourself telling the stories. **Share your Sky Stories on social media. Make sure to tag @GSCSNJ, using the #GSCSNJBadgesAtHome and #SeniorSkyBadge.**

