

Junior Girl Scout Badge Links



Junior leaders: Please use this guide to help your scouts fulfill requirements toward earning badges. All of the requirements listed below can be done at the Saint Louis Science Center at your leisure. We have listed the name of the badge, followed by the name of the particular requirement(s) that can be completed and the location within the Science Center, if applicable. It is our hope that you and your scouts have fun exploring the Science Center and earning badges.

ACROSS GENERATIONS

Service Directory - Saint Louis Science Center

Write to or call the Science Center's volunteer department. Find out what the requirements are for youth volunteers, what type of commitment is required, and what type of training is provided. Compile this information into a directory that other girls can use to do service projects.

ADVENTURE SPORTS

Get Strong - Med Tech

Go to the Med Tech gallery at the Saint Louis Science Center; although you won't be able to play any sports while there, you can do things to prepare your body for them. Practice some of the stretches and exercise that are provide. How do these movements prepare your body for more strenuous activity?

Impact Free - Stream Table

Find the Environment and Ecology Past Gallery and then look for the stream table. At this stream table you can learn about erosion as well as discuss how erosion affects land. If you get lucky, a gallery attendant may be there to answer any of your questions.

Aerospace

Think Sky High - James S. McDonnell Planetarium

Visit the James S. McDonnell Planetarium to learn all about space and aerospace science. Take in a start show! Control a robotic arm! Watch NASA flight controllers at work! You can also head to the flight control room to learn about airplanes. What is pitch? What is yaw? What do flight controllers have to keep track of?

Shoot for the Stars - Cyberville Gallery

Use the Internet computers in the Cyberville Gallery to log onto to www.nasa.gov, NASA's Web page. What missions are underway right now? Are there any planned for the near future? Be sure to check out "NASA Kids."

Women Flying Sky High - James S. McDonnell Planetarium

Do you have the right stuff to be an astronaut? Explore the planetarium to learn about an astronaut's life in space. You may also want to talk to a planetarium staff member to see if she can tell you more about what it takes to become an astronaut. Then you can head to Cyberville, the Science Center's computer technology gallery. Using the Internet computers, log on to www.quest.arc.nasa.gov/women/intro.html to find out more about what it takes to soar into space. You can also log on to www.ninety-nines.org, an international organization for women pilots.

ARCHITECTURE

Building Tour - Saint Louis Science Center

As you explore the Science Center with your troop, family, or with a friend, be sure to look for examples of architecture in the building. Using a sketch book or camera, record your observations of architectural features that you like and dislike.

Making Their Mark - James S. McDonnell Planetarium

A famous local architect, Gyo Obata, designed the external structure of the planetarium. Visit this structure and take note of your observations. Later, with the help of an adult, read about Mr. Obata in books or on the Internet.

BECOMING A TEEN

Successful Teens - Cyberville Gallery

Using the Internet in the computer lab in the Cyberville Gallery, find out about girls in their teens that have achieved success through an invention, a business, service to others, sports, the arts, or in another way. Find out why they were successful.

Looking Ahead - Cyberville Gallery

Using the Internet in the computer lab in the Cyberville Gallery, visit the website www.girlscouts.org/girls and read the advice that Dr. M offers to teenage girls facing challenges in their lives. What other suggestions might you have for these girls?

CAREERS

Hobbies Can Be Golden - Saint Louis Science Center

Many of the employees and volunteers here at the Saint Louis Science Center are here because they love science! Talk to some employees and find out about their hobbies – Astronomy, Paleontology, Anatomy, Biology, even film! Do you have any hobbies that are similar to the ones you've heard about today?

A Career For You - Saint Louis Science Center

Talk to an employee here at the Saint Louis Science Center who does a job that looks like fun to you. Ask them what type of education and training they needed to prepare for their jobs. What clothes, tools or equipment are needed for this job? Is it hard to get a job in this field? Share what you've learned at your next Junior Girl Scout meeting.

Computers On The Job - Cyberville/Saint Louis Science Center

Here at the Saint Louis Science Center our Cyberville gallery is devoted to a world that revolves around computers! But that's not the only place you can find computers here! Look at each gallery and exhibit and find how computers are used. Make a list that will help you keep track of them. Try to find ten different uses for computers here at the Saint Louis Science Center. Can you find more?

CARING FOR CHILDREN

The Danger Zone -- Saint Louis Science Center

Homes are not the only places you can find items that might be dangerous for a young child. Choose a gallery in the Saint Louis Science Center and make a list of things you can find that might be dangerous for very young children to play with.

Telling Tales - Saint Louis Science Center

Children love hearing a good story. Books are available in "book nooks" all around the Saint Louis Science Center – outside the Discovery Room, in the Planetarium, in the DNA Zone, on the bridge over the highway, and more! Go looking for these books and find your favorite today! Can you write a story about your day at the Saint Louis Science Center to share with a younger brother or sister?

Planning Ahead - Saint Louis Science Center

Many moms and dads come to the Saint Louis Science Center with very young children. Pretend you are helping your mother or father in getting ready to take a younger brother or sister to the Saint Louis Science Center. Make a list of all the things you would need to bring. Check over it with your parent before starting to pack!

The Toy Test - Saint Louis Science Center

Go through the Saint Louis Science Center and look at all the toys and games that are available to play with. Which ones are safe for very young children? Which ones are only safe for older children and why?

What, When? - Saint Louis Science Center

Children grow and change everyday. Here at the Saint Louis Science Center, we are dedicated to providing activities that are ideal for children of all ages. Can you make a list of three activities that would be ideal for children ages six months to a year; 12 through 18 months; 18 through 24 months (two years); 2 years through 4 years, and so on? Share this with your troop at your next meeting. (Hint: The Discovery Room is our area specifically designed for young children.)

CELEBRATING PEOPLE

Peace on Earth - Cyberville

Using the Internet in the computer lab in the Cyberville Gallery, find out about people who are "peacemakers." Identify three people who work for human rights, world peace, or tolerance. Pick one person to learn more about, and share your findings with others. How have scientists, such as Albert Einstein, worked for peace?

COMMUNICATION

Making it Public - Saint Louis Science Center

Plan a visit to the Science Center and gather information that you would include in your public service announcement about visiting the Science Center: How could you help to increase attendance and get young people to enjoy all that it has to offer.

CONSUMER POWER

Stretch That Dollar - ExploreStore

Play this game with a friend or family member: Come up with a reason to shop - it might be for a friend or relative's birthday, as a souvenir, or for school supplies. Set a reasonable amount you would like to spend. Visit the ExploreStore gift shop at the Science Center, armed with a pencil and paper. Who can find the most interesting or useful items for that amount of money?

COURT SPORTS

Warm Up - Med Tech Gallery

Before you exercise or play sports, it is important to warm up and stretch your muscles. Try a few of the stretches and activities available in the Med Tech gallery to get your heart pumping!

Juliette On the Court- Cyberville Gallery

With the help of an adult, go online using the Cyberville public access Internet computers and search for the history of Girl Scouts basketball. Girl Scouts have been playing basketball since 1912! Back then, girls couldn't wear trousers or shorts in public. What did they wear? Were the rules different than they are today? What about the equipment? Share what you learn with your troop, friends and family!

World of Sports - Cyberville Gallery

Court sports are played all over the world, but some sports, such as badminton and squash, are more popular in other countries. With the help of an adult, go online using the computers in Cyberville and look up the history of a not-so-common court sport. Learn about the rules, where the sport is popular, and the women who are star players.

DISCOVERING TECHNOLOGY

All Things Digital - Saint Louis Science Center

Come to the Science Center to play this little game: Have two groups make a list of 20 items that are located in the Science Center that have a computer chip in them. Swap lists. Set a time to meet together again and then search for the items located on your new list. When you meet again see who has found the most items.

The Future Is Here - Cyberville Gallery

Come to the Science Center's Cyberville gallery to investigate a new or developing type of technology. You can look throughout this gallery to see the past technology we have used as well as some of the up and coming technology. Use the Internet that is located in this gallery to look up even more information on what is new for the future of technology.

EARTH CONNECTIONS

Be an Ecologist - James S. McDonnell Planetarium

The Science Center's surrounding area in Forest Park provides the perfect setting for this activity. Explore the area around the Planetarium, and find a space no larger than 20 paces square. List the plants and animals you observe in your ecosystem, and count the number of different types present. Notice the different spatial levels of your ecosystem. Explain how the different levels affect each other.

Every Breath Counts - Cyberville Gallery

Environmental conditions, such as second-hand smoke and pollution, can trigger an asthma attack. With the help of an adult, go online to learn about asthma. What is it? Make a list of five things that can cause an asthma attack. How could you improve the environment to reduce asthma triggers?

Get the Lead Out - Cyberville Gallery

With the help of an adult, go online to learn about lead and why it can be dangerous. What are the three biggest sources of lead poisoning? How can lead poisoning be prevented? How is it treated?

FIELD SPORTS

The Right Stuff - Cyberville Gallery

With the help of an adult, choose a field sport and go online to learn about all the equipment used to play the sport. Research three particular pieces of equipment. Does the piece of equipment have a special shape? What is its purpose? How does it work? How do you take care of it?

FIRST AID

Share the Message - Med Tech Gallery

Come to the Science Center and walk around the Med Tech Gallery to see if there are any ideas that you would like to include in your four-page book.

FUN AND FIT

S-t-r-e-t-c-h - Med Tech Gallery

It is good to warm up your muscles before exercising. Try a few of the stretches and activities available in the Med Tech gallery. Why do these activities get your heart pumping? Why does your heart beat faster when you're exercising?

GIRL SCOUTING AROUND THE WORLD

Just For Girls - Cyberville Gallery

The computers in Cyberville allow you to go online to access many different websites. With the help of an adult, go to www.girlscouts.org/girls to learn more about Girl Scouting around the world. Share what you've learned at your next Junior Girl Scout meeting!

Common Roots - Cyberville Gallery

With the help of an adult, go online and search for information about Lord and Lady Baden-Powell. Find some information about how the Girl Guide movement came about. Write down everything you've learned to share at your next Junior Girl Scout meeting!

WAGGGS Travel - Cyberville Gallery

WAGGGS has four World Centers that any Girl Scout can visit. With the help of an adult, go online using the computers in Cyberville and find information about each center to share with the other Girl Scouts in your troop. You can find this information online at the WAGGGS website: www.wagggs.org.

GIRL SCOUTING IN MY FUTURE

Your Own Wider Op - Saint Louis Science Center

Girl Scouting provides wonderful opportunities to widen your horizons and try new things. Come to the Saint Louis Science Center for a day out with your friends or family, to explore our galleries, see a film in the Omnimax Theatre and to complete any of the BadgeLinks included here!

GLOBAL AWARENESS

Where In The World - Cyberville Gallery

Using the computers in Cyberville, research another city or country far away from where you live. What are some of the similarities and differences between your home and this place?

Sisters - Cyberville Gallery

Using the computers in Cyberville, go online to the WAGGGS Website www.wagggs.org. Pick a WAGGGS country. What are WAGGGS girls in that country called? What does their uniform look like? What is their Promise like? What types of things do they do? Share what you've learned with your troop or group.

Lead the Way - James S. McDonnell Planetarium

At the planetarium is the space suit of Anousheh Ansari, the first female space tourist! Go see the space suit in the Skyport Lobby of the planetarium and read about her trip into space. You can also go online to learn more about her accomplishments and successes. Share what you have learned with other members of your troop or group.

HEALTHY RELATIONSHIPS

Fun and Games - Saint Louis Science Center

Include the Science Center on your list of fun, free things to do. You could make up scavenger hunts to play while touring the many galleries. Or think up six things to do around the science and do each of those during your visit for that day.

HIKER

Hiking is Worldwide - Cyberville Gallery

Go to Cyberville and look up some of the trails that are listed in your badge book. Plan your dream trip to one of the sites here or abroad, and describe what you might experience as a traveler.

LOCAL LORE

Word of Mouth - Saint Louis Science Center

Find out as much as you can about the Science Center- it's history, galleries there are, and what types of fun things they have going on. A good place to start is by asking Science Center staff in the main lobby! Share your findings with others.

Tour Your Community - Structures Gallery

The Structures Gallery talks about many architectural features that you could find around town. What makes up bridges and what makes a building strong? You could also go out to Forest Park to get a better view of the Science Center building. What architectural features do you see? Do you like the building? Why or why not?

Focus on the Future - James S. McDonnell Planetarium

What do you think the Science Center will look like in the next 100 years? Bring your troop to Forest Park and sit in a place where you can all see the Saint Louis Science Center. The grass outside the planetarium is a good spot! Have each girl draw a design of what they think the Science Center could look like in the future. What will change? What will stay the same?

MATH WHIZ

Shape Up - Saint Louis Science Center

Look around the Science Center for geometric shapes. Check the floor, doors, windows, and any of the items located in the galleries. Find out about the names of the shapes you don't already know. Then visit the Math Cart, located on the main level, to play some fun games with shapes.

Make a Math Puzzle - Human Adventure/Math Cart

Visit the Math Cart, near the main entrance of the Science Center. Can you make the letter T out of the geometric shapes? See who can solve the puzzle first! If you can't get the answer, some of the gallery staff can assist you. While you're there try some of the other fun puzzles located in this area.

MY COMMUNITY

My Favorite Things - Saint Louis Science Center

What are your favorite things to do at the Science Center? Create an advertisement that promotes all of your favorite things to do.

MY HERITAGE

What's in a Name? - Cyberville Gallery

In Cyberville, you can use the Internet to research your name! What does your name mean? Where did it come from? You can find out who else has had your name and what it's heritage is.

Broaden Your Background - Cyberville Gallery

Visit Cyberville and use the Internet to find out if any famous people had or have your last name. What did they accomplish? Figure out ways you could do that same thing.

OIL UP

A Day's Work - Cyberville Gallery

Using the Internet computers in Cyberville, find out what rescue workers and scientists do to try to save animals that have been affected by an oil spill.

Around the World - Cyberville Gallery

Using the Internet computers in Cyberville find out where the major oil deposits in the world are. Pick one of the countries that supplies the world with oil and learn about its customs, languages and landmarks.

Ten? Twenty? - Cyberville Gallery

Using the Internet computers in Cyberville find out what types of careers are involved in finding oil, getting it out of the Earth, moving it from place to place, making fuels from it, and producing chemicals from it.

ON MY WAY

Create a Travel Postcard – James S. McDonnell Planetarium

When traveling, it's great to use your imagination to think of new places to go! Don't limit yourself to places only found on Earth. Head over to the Planetarium and learn about the other planets in our solar system. Decide which one you'd like to visit, plan your trip and don't forget to send postcards!

What Would You Do – James S. McDonnell Planetarium

Imagine you were visiting a planet like Mars or Venus. What types of problems might you encounter? Consider things such as surface temperature, terrain, water, and food availability, and come up with ways to solve these obstacles. Talk with your troop to share how you would overcome these problems.

Travel Bug – James S. McDonnell Planetarium

Once you've decided how to overcome the obstacles of surviving in outer space, plan a trip as if you were going there. What would you pack? Where would you sleep? What would you want to visit – a crater on Mars or the dark side of the Moon? Go to our scale in the tunnel between the bridge and the planetarium and calculate how much it would cost to launch you into orbit today!

I'd Take... – James S. McDonnell Planetarium

Pick a planet you'd like to visit and learn about its characteristics. Is it hot or cold there? Will it be sunny or dark? Will there be oxygen, gravity and water? Consider all these things and make a list of what you would take with you if you would go to visit this planet. Share and compare your list with the lists of your friends at your next meeting!

OUTDOOR CREATIVITY

Many Ways to Be Creative – Forest Park

Sit outside in Forest Park and use nature as your inspiration for art. Use any medium that you feel comfortable with. Then discuss why your subject appealed to you and what you hoped to show in your work.

PUZZLERS

Do You See it? – Human Adventure Gallery

Your eyes can play tricks on you! Learn about your eyes and have fun playing with a number of optical illusions in the Human Adventure Gallery.

ROCKS ROCK

What type is it? – Environment and Ecology Past

Learn more about igneous, sedimentary and metamorphic rocks in the environment and ecology past gallery. What are the characteristics of each type of rock? How is each formed? What are some examples of each type? What types do you have in your collection?

Geo Careers – Paleo Lab

Visit the Science Center's Paleo Lab, located in the Environment and Ecology Past gallery. Talk with the staff and volunteers who work in the lab about what paleontologists do, why they have to know about rocks and fossils, and what specimens they are working on. Did you know the St. Louis Science Center takes an annual trip to Montana to dig for dinosaur bones?

Wipe Out Erosion – Environment and Ecology Past

Visit the stream table to learn about the effects of erosion. With a Science Center staff member or with your troop talk about what you see. What happens to the banks of the stream? How could we help prevent erosion?

Around the Globe – Environment and Ecology Past

Volcanic eruptions, geysers, earthquakes and tsunamis have had a tremendous impact on people around the world. Visit the Environment and Ecology Past gallery to learn more about natural disasters and how each of these occurs. Check out the maps that show where the world's volcanoes and fault lines are.

Fossil Fun – Environment and Ecology Past

Visit the Science Center to learn about how fossils are formed and how scientists use them. Can you find the different ways fossils can form? Where do we find fossils? Then visit the Paleo Lab to see real dinosaur bones and fossils collected by Science Center staff members. You might even be able to touch one!

SAFETY FIRST!

Look Out! – Saint Louis Science Center

Take a "hazard identification hike" through the Science Center and write what you see that could be dangerous to you or others. What could be done in order to fix these problems? Share your list with a Science Center employee.

Out and About in Public – Saint Louis Science Center

Before you visit the Science Center talk with your group on how to stay safe. Make a safety plan. What happens if someone gets separated? How many people to a group? What time is the whole group leaving? When we leave, where are we meeting?

SCIENCE DISCOVERY

It's a Hands-On and Happening Place – Saint Louis Science Center

The Science Center always has things going on, including opportunities for your troop to spend the night in the museum! Check the Science Center's Web site, www.slsc.org, for information on the next scheduled camp-in.

See What? – Human Adventure Gallery

Your eyes can play tricks on you! Learn about your eyes and have fun playing with a number of optical illusions in the Human Adventure Gallery!

SCIENCE IN EVERYDAY LIFE

Forces of Nature – Environment and Ecology Past

Visit the stream table to learn about the effects of erosion. With a Science Center staff member or with your troop talk about what you see. What happens to the banks of the stream? How could we help prevent erosion?

Color Mixing - Human Adventure Gallery

Did you know that the primary colors of light are red, green and blue? Look up! Can you find red, green and blue lights? Find the wall that these lights shine on. What happens when red and blue light mix? How about blue and green? What happens when all three colors mix? Why there is no yellow light?

SCIENCE SLEUTH

Seeing the Light - Human Adventure Gallery

Our eyes can only see a portion of light called visible light. Visible light contains red, orange, yellow, green, blue, indigo and violet colors. Those colors are usually mixed to form white light. We can separate the colors of light, however, if we use a prism. Find the prisms and see if you can make a rainbow!

SKY SEARCH

Mapping the Skies - James S. McDonnell Planetarium

The stars and constellations are easy to identify when you have a map! Visit the Planetarium and learn how to use the planisphere, a circular star map that can be set for any time and any date. What will the sky look like tonight at 9 p.m.? If we could see the stars at Noon, what would the sky look like?

Constellations - James S. McDonnell Planetarium

Constellations are stars that appear to be in groups. Some constellations are visible all year long, while some only appear during certain seasons. Using the planisphere and star charts nearby learn about some popular constellations that we can see in St. Louis.

Planets - James S. McDonnell Planetarium

Did you know you can see other planets from Earth? Take in a star show to learn about which planets are currently visible in the morning, evening and night skies.

TOYMAKER

Toys Around the World - Cyberville Gallery

Using the internet computers in Cyberville, find out about toys in other countries and other cultures. In some places, children make their own toys. Try searching for "Folk toys" or "Explore toys around the world." You might even find some toys you can make yourself!

TRAVELER

Promote a Place - Saint Louis Science Center

Write to or call the Science Center and request brochures and information about the programs, shows, and exhibits you can see at the Science Center. With your troop or family, plan a trip using the information you received.

VISUAL ARTS

Tour It - Saint Louis Science Center

Visit the Saint Louis Science Center, but before you go in stop and take a look at the outside of the building. What does the building look like? Is there anything you find interesting about the design? As you enter the museum and explore the galleries, pay close attention to the signs next to each exhibit. How do the signs look? Does each gallery have a design theme? Before you leave, head to the Structures Gallery. Use the tinker toys to design a bridge that is both functional and interesting to look at.

Take a Nature Hike! - James S. McDonnell Planetarium

The planetarium is situated in a nice corner of Forest Park, complete with lots of trees and nature. Take a short hike from the planetarium into Forest Park! Along your nature hike, try to find many different colors and shapes in nature.

WORLD NEIGHBORS

Global Games - Cyberville Gallery

Using the internet computer lab in the Cyberville Gallery, find the rules and objectives for a game played by children in another country. Put what you have learned into practice by playing the game with your troop or family.

The Love of Language - Cyberville Gallery

Using the internet in the computer lab in the Cyberville Gallery, for two languages other than your own, research and learn:

- a. To count to ten
- b. To say "hello"
- c. To say "goodbye"
- d. To say "thank you"
- e. To say "you're welcome"

Traditions - Cyberville Gallery

Using the internet in the computer lab in the Cyberville Gallery, find out how one of your favorite holidays is celebrated in another country. Learn what's similar and what's different. Include one of these new traditions in a holiday celebration with your troop or family.

