



Scout Saturdays

www.tellusmuseum.org

Call 770-606-5699 to make your reservations!

October 3

Webelos, *Geology* - 9am to 11am

November 7

Boy Scouts, *Energy Merit Badge* – 9am to 11am and 12 to 2pm

November 14

Girls Scouts Council Event

Juniors, Cadets, Seniors & Ambassadors, *Night Sky* - 10am to 12pm

December, No program

January 16

Webelos & Cub Scouts, *Geology* - 9am to 11am

February 6

Cub & Boy Scouts, *Night Sky* - 9am to 11am

March 6

Girl Scouts Council Event

Brownies, *Science Wonder* - 10am to 12pm

April 17

Girl Scouts Council Event

Brownies & Juniors, *Weird Science* - 10am to 12pm

Program and Admission Prices

Troop or Pack Reservations - 100 maximum

\$15.00 per Scout

\$15.00 per additional child

Free Admission for one Scout Leader per 10 scouts

Adult Members – Free

Museum memberships do not cover program costs for scouts

Adults - \$12.00

Active Military with ID – Free

Seniors (65+) - \$10

Girl Scout Council Events - 50 min. - 200 max

Registration through GSA ONLY

Cost has already been determined and printed in the GSA catalogue

\$18.00 per girl

Free Admission for one Scout Leader per 10 scouts

Adult Members – Free

Museum memberships do not cover program costs for scouts

Adults - \$12.00

Active Military with ID – Free

Seniors (65+) - \$10

**Reservations are required
and close 2 weeks before event date.**

Payment required at the time of registration. Full refund if reservations are cancelled 2 weeks in advance. We accept all major credit cards.

October 3, Geology Scout Day

Webelo Scouts, 9 to 11am & Junior Girl Scouts, 12pm to 2pm

Webelo Geology

Come be a geologist for the day at Tellus! Learn about the anatomy of planet Earth from the inside out, what makes a volcano erupt and how minerals affect your everyday life by visiting the Weinman Mineral Gallery. Put your hands on the three rock types and touch real fossils, learn what a fossil is and make your own fossil cast to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery.

Program will consist of 25 scouts / 4 rotations 30 minutes each: 100 scouts total

1. Mineral Gallery: Anatomy of a planet, rock vs. mineral interactive wall, Magic Planet, Mining area interactive with scavenger hunts to list mineral uses of everyday products, Kitchen interactive to make list of minerals used in home, gemstone area listing minerals used in jewelry.
2. Rock and Roll lab & Fossiliferous lab in addition with volcano poster for drawing activity. Scout Packs handed out, classroom 1.
3. Fossil Gallery to complete scavenger hunt.
4. Hard fossil dig & gem panning, classroom 2.
5. All groups end at the store.

Webelo Program- Geologist Activity Badge

Requirements fulfilled:

Activity:

1. Requirement #1 Collect five geologic specimens that have important uses	1. Scout Pack
2. Requirement #2 Rocks and minerals are used in metals, glass, jewelry, road-building products and fertilizer. Give examples of minerals used in these products	2. Scavenger Hunt in Mineral gallery
3. Requirement #4 List some of the geologic materials used in building your home	3. Mineral Gallery Kitchen (scavenger hunt) and Scout Pack insert
4. Requirement #5 Make a drawing that shows the cause of a volcano, a geyser, or an earthquake	4. Drawing activity in lab
5. Requirement #6 Explain one way in which mountains are formed	5. Mineral Gallery Magic Planet
6. Requirement #7 Describe what a fossil is and how is it used to tell how old a formation is? Find two examples of fossils in your area	6. Fossiliferous lab, scavenger hunt in Fossil Gallery

7. Requirement #9 Define Geology	7. Will define during program
8. Requirement #9 Collect samples of igneous, sedimentary and metamorphic rocks. Explain how each is formed	8. Rock and Roll lab and Scout packs
9. Requirement #9 Explain difference between a rock and a mineral	9. Mineral gallery interactive

November 7, Boy Scouts, Energy Merit Badge

FARMING FOR FUELS – What are Biofuels? Where do Biofuels originate? These ideas and more are explored in this exciting lesson about energy needs for transportation and why we should get away from fossil fuels. Sponsored by US Department of Energy and BioEnergy Science Center and Creative Discovery Museum.



Program will consist of: Introduction of 30 minutes and 3 rotations of 30 minutes each/33 or 34 scouts per rotation (100 scouts total).

1. Theater: Introduction of the carbon cycle and how gas-powered vehicles contribute to the detrimental addition of carbon into the environment.
2. SIM Gallery:
 - a. Activity 1: Demonstration of an internal combustion engine.
 - b. Activity 2: Observe other types of engines in the Science in Motion gallery.
3. Lab 1:
 - c. Activity 3: How plants become biofuels.
 - d. Activity 4: Sugar is the energy source for our bodies and for biofuel vehicles – measuring sugar levels of different foods.
4. Lab 2:
 - e. Activity 5: Compare alternative energy vehicles: solar, wind, and hydrogen.
 - f. Activity 6: Take a closer look at cells of biomass that must be broken down to create biofuels.
5. All groups end at the store.

Boy Scouts - Energy Merit Badge

Requirements fulfilled:

Activity:

1. Requirement #3.1 Identify the parts of the system that are affected by the	1. Introduction; Activities 3, 4, 6
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energy movement	
2. Requirement #3.2 Name the system's primary source of energy	2. Activities 1, 2, 3, 4, 5, 6
3. Requirement #3.3 Identify the useful outcomes of the system	3. Introduction; Activities 3, 5
4. Requirement #3.4 Identify the energy losses of the system	4. Introduction; Activities 1, 2
5. Requirement #5.1 Explain how the changes you suggest would lower costs, reduce pollution, or otherwise improve your community	5. Activities 1, 2, 3, 6
6. Requirement #5.2 Explain what changes to routines, habits, or convenience are necessary to reduce energy waste. Tell why people might resist the changes you suggest	6. Introduction; Activities 1, 2, 3, 4
7. Requirement #7 Tell what is being done to make FIVE of the following energy systems produce more usable energy. In your explanation describe technology, cost, environmental impacts and safety concerns	7. Introduction; Activities 1, 2, 3, 4, 5, 6

November 14, Girls Scout Council Event, *Night Sky*

Junior Girl Scout: Sky Search Activity: Take a tour of the evening sky, find the current constellations and where the visible planets are located. Hear legends from cultures around the world about the sky. Tour the meteorite gallery to learn about rocks from space. Also visit the observatory to learn how telescopes work.

Senior & Cadet Girl Scouts: Tour of the night sky in the planetarium, investigate eclipses, seasons and seasonal constellations. Learn how to tell time using the sky. Visit the observatory and view sunspots (weather permitting).

Program will consist of 3 rotations of 40 minutes: 100 scouts total for 1 group
This program will run two groups to accommodate 200 students total max.

1. Groups A & B (100 scouts) Live Planetarium show 40 min.

2. Group A (50 scouts) Star wheel activity in big theater - 40 min.

Group B (50 scouts)

(25 scouts) Moon Phase Activity in Lab 4 - 20 min.

(25 scouts) Solar observation/ or power point images if cloudy in lab 3 - 20 min.

3. Group B (50 scouts) Star wheel activity in big theater - 40 min.

Group A (50 scouts)

(25 scouts) Moon Phase Activity in Lab 4 - 20 min.

(25 scouts) Solar observation/ or power point images if cloudy in lab 3 - 20 min.

4. All groups end at the store.

Requirements fulfilled:	Activity:
Junior Girl Scout: 1. Requirement #8 Aerospace: Space Flight Spinoffs 2. Requirement #1-8 Sky Search: Mapping the Skies, Constellations, Direction - Please, Planets, Connect the dots, Tools of the Trade, Time for the Moon, & The Sky Is Falling 3. Requirement #10 Mission: Space	2. Planetarium Program, Star Wheel activity & Moon Phase activity
Senior & Cadet Girl Scouts: 1. Requirement #1,2 & 3 Space Exploration: Skill Builders 2. Requirement #1 Technology	3. Planetarium Program, Star Wheel activity & Moon Phase activity

December, No program

January 16, Webelo & Cub Scouts, Geology

Come be a geologist for the day at Tellus! Learn about the anatomy of planet Earth from the inside out, what makes a volcano erupt and how minerals affect your everyday life by visiting the Weinman Mineral Gallery. Put your hands on the three rock types and touch real fossils, learn what a fossil is and make your own fossil cast to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery.

Program will consist of 25 scouts / 4 rotations 30 minutes each: 100 scouts total

1. Mineral Gallery: Anatomy of a planet, rock vs. mineral interactive wall, Magic Planet, Mining area interactive with scavenger hunts to list mineral uses of everyday products, Kitchen interactive to make list of minerals used in home, gemstone area listing minerals used in jewelry.
2. Rock and Roll lab & Fossiliferous lab in addition with volcano poster for drawing activity. Scout Packs handed out, classroom 1.
3. Fossil Gallery to complete scavenger hunt.
4. Hard fossil dig and gold panning, classroom 2.
5. All groups end at the store.

Webelo Program- Geologist Activity Badge
Requirements fulfilled:

Requirements fulfilled:	Activity:
1. Requirement #1 Collect five geologic specimens that have important uses	1. Scout Pack
2. Requirement #2 Rocks and minerals are used in metals, glass, jewelry, road-building products and fertilizer. Give examples of minerals used in these products	2. Scavenger Hunt in Mineral gallery
3. Requirement #4 List some of the geologic materials used in building your home	3. Mineral Gallery Kitchen (scavenger hunt) and Scout Pack insert
4. Requirement #5 Make a drawing that shows the cause of a volcano, a geyser, or an earthquake	4. Drawing activity in lab
5. Requirement #6 Explain one way in which mountains are formed	5. Mineral Gallery Magic Planet
6. Requirement #7 Describe what a fossil is and how is it used to tell how old a formation is? Find two examples of fossils in your area	6. Fossiliferous lab, scavenger hunt in Fossil Gallery
7. Requirement #9 Define Geology	7. Will define during program
8. Requirement #9 Collect samples of igneous, sedimentary and metamorphic rocks. Explain how each is formed	8. Rock and Roll lab and Scout packs
9. Requirement #9 Explain difference between a rock and a mineral	9. Mineral gallery interactive

Cub Scouts Geology belt loop and three initial Geology Pin requirements fulfilled:

1. Requirement #1 Define Geology	1. Will define during program
2. Requirement #2 Collect samples of igneous, sedimentary and metamorphic rocks. Explain how each is formed	2. Scout packs
3. Requirement #3 Explain difference between a rock and a mineral	3. Mineral gallery interactive

Cub Scout Geology Pin requirements fulfilled:

1. Requirement #1 Make a plaster cast of a fossil	1. Fossiliferous lab. Scouts will make a mold in air dry clay which can be completed at Den meeting to pour Plaster of Paris in mold
2. Requirement #2 Scale of Hardness with examples and photos	2. Mineral Gallery tour
3. Requirement #2 Make a collection of	3. Scout packs

rocks and minerals	
4. Requirement #10 Make a poster showing 10 everyday products that contain or use rocks or minerals	4. Scout packs. Complete at Den meeting with enclosed information

February 6, Cub & Boy Scouts, Night Sky

Learn how to make and use a rotary star chart, find the major constellations, planet positions in the planetarium. Learn why the Moon goes through phases. Learn how to build a star clock using the Big Dipper. Scouts will visit the planetarium and apply their skills to exploring the constellations and finding the moon and planets.

Program will consist of 3 rotations 33/34 scouts of 40 minutes: 100 scouts total

1. Groups A & B (100 scouts) Live Planetarium show - 40 min.

2. Group A (50 scouts) Star wheel activity in big theater - 40 min.

Group B (50 scouts)

(25 scouts) Tour of Rockets in Science & Motion Gallery - 20 min.

(25 scouts) Solar observation/ or power point images if cloudy in lab 4 - 20 min.

3. Group B (50 scouts) Star wheel activity in big theater - 40 min.

Group A (50 scouts)

(25 scouts) Tour of Rockets in Science & Motion Gallery - 20 min.

(25 scouts) Solar observation/ or power point images if cloudy in lab 4 - 20 min.

4. All groups end at the store.

Boy Scout Astronomy Merit Badge

Requirements fulfilled:

Activity:

1. Requirement # 2 Explain what light pollution is and how it and air pollution affect astronomy	1. Visit the planetarium
2. Requirement # 4 a. Identify in the sky at least 10 constellations, at least four of which are in the zodiac b. Identify at least eight conspicuous stars, five of which are of magnitude 1 or brighter c. Make two sketches of the Big Dipper. In one sketch, show the Big Dipper's orientation in the early evening sky. In another sketch, show its position several hours later. In both sketches, show the North Star and the horizon. Record the date and time each sketch was made	2. Visit the planetarium. Learn how to use a rotary star chart

d. Explain what we see when we look at the Milky Way	
3. Requirement # 5 a. List the names of the five most visible planets. Explain which ones can appear in phases similar to lunar phases and which ones cannot, and explain why b. Find out when each of the five most visible planets that you identified in requirement 5a will be observable in the evening sky during the next 12 months, then compile this information in the form of a chart or table. Update your chart monthly to show whether each planet will be visible during the early morning or in the evening sky	3. Visit the planetarium. Learn how to use a rotary star chart
4. Requirement # 9 a. Visit a planetarium or astronomical observatory. Submit a written report, a scrapbook, or a video presentation afterward to your counselor	4. Visit the planetarium

Cub Scout Astronomy Pin requirements fulfilled: Activity:

1. Requirement #1,2,3,4,5,6,7 & 9 Draw a diagram of a telescope and explain how it works	1. Solar Observation with telescope
2. Requirement #2,3,4,5,6,7 & 9 Locate and identify five constellations. You may use a telescope	2. Visit the planetarium. Learn how to use a rotary star chart
3. Requirement #4,5,6,7 & 9 Find the North Star. Explain its importance	3. Visit the planetarium. Learn how to use a rotary star chart
4. Requirement #6 Visit an observatory or a planetarium. Give a report on what you learned to your den	4. Visit the planetarium
5. Requirement #8 Learn about some of the early space missions. Tell your den or family about one of them	5. Visit the Science in Motion Gallery

March 6, Girl Scout Council Event Brownies, Science Wonders

You can be a scientist as you explore how wonderful science can be! The changes seem like magic, but you make them happen. Explore science from static electricity to recycled paper and more! Come and earn the Brownie try-it for Science Wonders!

Program will consist of: 3 rotations of 40 minutes each/33 or 34 scouts per rotation (100 scouts total).

1. Lab 1 and 2:
 - a. Activity 1: Bubbles – make your own bubbles and bubble makers.
 - b. Activity 2: Magnets – try your hand at finding out what materials are magnetic.
2. Lab 3 :
 - c. Activity 3: Homemade Recycled Paper – make a mushy mess while making your own paper.
3. Lab 4/MBBY Gallery:
 - d. Activity 4: Static – participate in an electrifying demonstration on an electrostatic generator.
 - e. Activity 5: Spend a few minutes in the *Collins Family My Big Backyard* trying out magnets and electricity.
4. All groups end at the store.

Brownies Science Wonders Badge

Requirements Fulfilled:

Activity:

1. Requirement #2 Bubbles	1. Activity 1
2. Requirement #3 Recycle by making your own paper	2. Activity 3
3. Requirement #5 Discover what a magnet will stick to	3. Activities 2, 5
4. Requirement #6 Find out what static can do	4. Activities 4, 5

April 17, Girl Scout Council Event, Weird Science

Brownies & Junior Girl Scouts

Awesome science fun and learning at the same time! Brownies will learn all about their five senses as they explore labs and The Collins Family My Big Backyard. Complete every stop and earn the Senses Badge! Come and earn the Brownie try-it! Juniors will become a geologist and study the anatomy of planet Earth from the inside out!

Brownies Senses Try It

Program will consist of: 3 rotations of 40 minutes each/33 or 34 scouts per rotation (100 scouts total).

1. Lab 1:

Activity 1: Sight – find out how you see – and how optical illusions confuse your brain.

Activity 2: Touch – try your hand at discovering what objects are through touch.

2. Lab 3 :

Activity 3: Taste – map your tongue and experience the location of various tastes.

Activity 4: Smell – can you smell it? Can you tell what the smell is?

3. Theater/MBBY Gallery:

Activity 5: Sound – discover how sound and vibration are related. Create an “ear” that will help you hear better.

Activity 6: Spend time in the Collins Family My Big Backyard trying out the sound shed and exploring the rest of the gallery.

All groups end at the store.

Brownies Science Wonders Badge

Requirements Fulfilled:

Activity:

1. Requirement #1 – Only the Nose Knows	1. Activity 4
2. Requirement #2 – Making a Better Ear	2. Activity 5
3. Requirement #3 – Now You See It	3. Activity 1,6
4. Requirement #4 – Can You Feel It?	4. Activity 2
5. Requirement #5 – Mapping the Tongue	5. Activity 3

Junior Program- Rocks Rock Badge

Become a geologist and study the anatomy of planet Earth from the inside out, what special geologic events have affected the state of Georgia and how minerals affect your everyday life by visiting the Weinman Mineral Gallery. Put your hands on the three rock types and touch real fossils, learn what a fossil is and make your own fossil cast to take home in the lab. You’ll even be able to pan for real gemstones and dig for fossils, as well as visit the fossil gallery. Let’s earn a badge while having fun at Tellus Science Museum!

Program will consist of 25 scouts / 4 rotations 30 minutes each: 100 scouts total

1. Mineral Gallery: Anatomy of a planet, rock vs. mineral interactive wall, Magic Planet, Mining area interactive with scavenger hunts to list mineral uses of everyday products, Kitchen interactive to show a number of minerals used in home, gemstone showing minerals used in jewelry.
2. Rock and Roll lab with satellite and aerial photos & Fossiliferous lab w/Scout Packs, classroom 1.
3. Fossil Gallery and scavenger hunt.
4. Hard fossil dig and gold panning.
5. All groups end at the store.

Junior Program- Rocks Rock Badge – must complete 6 requirements to earn

Requirements fulfilled:

Activity:

1. Requirement #1 Be a Rock Hound! Start a rock collection	1. Scout Pack
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<p>2. Requirement #2 Geo Hunt: Search for clues that show:</p> <ul style="list-style-type: none"> a. where water once covered an area b. where erosion has happened and c. where the earth has shifted <p>All right here in Georgia</p>	<p>2. Discussion of satellite photo of Georgia and aerial photo of Allatoona water shed in lab</p>
<p>3. Requirement #3 What type rock is it? Three major categories of rock</p>	<p>3. Rock and Roll lab</p>
<p>4. Requirement #7 Around the Globe: A volcano, a geyser, an earthquake and tsunami. Find a place where one has struck a population and how it affected them</p>	<p>4. Mineral Gallery – Iris screen for where earthquake occurred. Complete what the effects were at next meeting or home</p>
<p>5. Requirement #8 View from Above: Locate from photos:</p> <ul style="list-style-type: none"> a. Major ocean b. Land area c. Rivers, lakes and other waterways d. Other features of interest (Fall Line, shifting barrier islands of GA). 	<p>5. Drawing from satellite photo of Georgia and discussion of aerial photo of Allatoona water shed in lab</p>
<p>6. Requirement #9 Fossil Fun! Describe what a fossil is. How is it used to tell how old a formation is? Find two examples of fossils in your area</p>	<p>6. Fossiliferous lab, scavenger hunt in Fossil Gallery</p>