



Scout Saturdays

Tellus Science Museum
P.O. Box 3663
Cartersville, GA 30120
Physical Address: 100 Tellus Drive, Cartersville, GA 30120

****Program registration begins August 22, 2011****

2011 – 2012 Programs:

- October 22, 2011 - Geology Scout Day:
 - ***Webelos and Cubs – Geology** (min. 15, max. 60)
 - ***Junior Girl Scouts – Rocks Rock!** (min. 15, max. 60)
- November 5, 2011: ***Cubs and Boys – Night Sky** (min.15, max. 100)
- January 21, 2012: ***Brownies – Science Wonders** (min.15, max. 100)
- February 18, 2012: ***Junior Girls and Cadets – Night Sky** (min.15, max. 100)
- March 10, 2012: ***Webelos and Cubs – Geology** (min.15, max. 100)
- April 21, 2012 - Geology Scout Day:
 - ***Webelos and Cubs – Geology** (min. 15, max. 60)
 - ***Junior Girl Scouts – Rocks Rock!** (min. 15, max. 60)

Program and Admission Prices

Troop or Pack Reservations

All programs run 9:45am – 12:30pm

Check-in begins at 9:30am

\$15.00 per Scout

\$15.00 per additional child

Museum memberships do not cover program costs for scouts

Free Admission for one Scout Leader
per 10 scouts

Adults - \$12.00

Active Military with ID – Free

Seniors (65+) - \$10

Adult Members – Free

Girl Scout Council Events

All programs run 9:45am – 12:30pm

Check-in begins at 9:30am

\$15.00 per girl

\$15.00 per additional child

Museum memberships do not cover program costs for scouts

Free Admission for one Scout Leader
per 10 scouts

Adults - \$12.00

Active Military with ID – Free

Seniors (65+) - \$10

Adult Members – Free

Reservations are required and close 2 weeks before event date.

Payment required at the time of registration.

Full refund if reservations are cancelled 3 weeks in advance.

We accept all major credit cards.

Call 770-606-5699 to make your reservations!

Program Details and Requirements Fulfilled

October 22, 2011 - Geology Scout Day

Webelos & Cub Scouts and Junior Girl Scouts

9:45 am to 12:30 pm (*check-in begins at 9:30*)

Webelo and Cubs *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 mold to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery. Begin your collections when each scout receives a "Scout Pack" consisting of various labeled rocks and minerals with their names and uses. Earn your geology belt loop, activity pin for Cubs and geology badge for Webelos, while having fun at Tellus.

Program will consist of 5 rotations 30 minutes each: 60 scouts total maximum.

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. Fossil Gallery, travel through geologic time, touch some real fossils, learn the definition of a fossil while completing your scavenger hunt.
3. Rock and Roll lab in addition with volcano poster for drawing activity, classroom two.
4. Fossiliferous lab and Scout Packs handed out, classroom one.
5. Fossil dig & gem panning.
6. All groups end at the store where Tellus patches are available.

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

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 rocks and minerals	3. Scout packs
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

Junior Girl Scouts, *Rocks Rock!*

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 mold to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery. Begin your

collections when each Girl Scout receives a “Scout Pack” consisting of various labeled rocks and minerals with their names and uses. Earn a badge while having fun at Tellus Science Museum!

Program will consist of 5 rotations 30 minutes each: 60 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. Fossil Gallery, travel through geologic time, touch some real fossils, learn the definition of a fossil while completing your scavenger hunt.
3. Rock and Roll lab with satellite and aerial photos, classroom two.
4. Fossiliferous lab and Scout Packs handed out, classroom one.
5. All groups end at the store where Tellus patches are available.

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
2. Requirement #2 Geo Hunt: Search for clues that show: <ol style="list-style-type: none"> a. where water once covered an area b. where erosion has happened c. where the earth has shifted All right here in Georgia	2. Discussion of satellite photo of Georgia and aerial photo of Allatoona water shed in lab
3. Requirement #3 What type of rock is it? Three major categories of rock	3. Rock and Roll lab
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	4. Mineral Gallery – IRIS screen for where earthquake occurred. Complete what the effects were at next meeting or home
5. Requirement #8 View from Above: Locate from photos; <ol 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) 	5. Drawing from satellite photo of Georgia and discussion of aerial photo of Allatoona water shed in lab
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	6. Fossiliferous lab, scavenger hunt in Fossil Gallery

November 5, 2011

Cubs and Boy Scouts, *Night Sky*

9:45 am to 12:30 pm (*check-in begins at 9:30*)

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 of 50 minutes, 50 scouts per group: 100 scouts total

1. Groups A & B (100 scouts) Live Planetarium show - 50 min.
2. Group A (50 scouts) Star wheel activity in big theater - 50 min.
Group B (50 scouts)
(25 scouts) Tour of Rockets in Science & Motion Gallery - 25 min.
(25 scouts) Solar observation/ or power point images if cloudy in lab 4 - 25 min.
3. Group B (50 scouts) Star wheel activity in big theater - 50 min.
Group A (50 scouts)
(25 scouts) Tour of Rockets in Science & Motion Gallery - 25 min.
(25 scouts) Solar observation/ or power point images if cloudy in lab 4 - 25 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 d. Explain what we see when we look at the Milky Way	2. Visit the planetarium. Learn how to use a rotary star chart

<p>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</p>	<p>3. Visit the planetarium. Learn how to use a rotary star chart</p>
<p>4. Requirement # 9 a. Visit a planetarium or astronomical observatory. Submit a written report, a scrapbook, or a video presentation afterward to your counselor</p>	<p>4. Visit the planetarium</p>

Cub Scout Astronomy Pin requirements fulfilled: Activity:

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

January 21, 2012

Brownies, *Science Wonders*

9:45 am to 12:30 pm (*check-in begins at 9:30*)

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 50 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

February 18, 2012

Juniors and Cadets - *Night Sky*

9:45 am to 12:30 pm (*check-in begins at 9:30*)

Juniors and Cadets, *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 50 minutes, 50 scouts per group: 100 scouts total

1. Groups A & B (100 scouts) Live Planetarium show 50 min.
2. Group A (50 scouts) Star wheel activity in big theater - 50 min.
Group B (50 scouts)
 (25 scouts) Moon Phase Activity in Lab 4 - 25 min.
 (25 scouts) Solar observation/ or power point images if cloudy in Lab 3 - 25 min.
3. Group B (50 scouts) Star wheel activity in big theater - 50 min.
Group A (50 scouts)
 (25 scouts) Moon Phase Activity in Lab 4 - 25 min.
 (25 scouts) Solar observation/ or power point images if cloudy in lab 3 - 25 min.
4. All groups end at the store.

Requirements fulfilled:

Activity:

<p>Junior Girl Scout:</p> <ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Planetarium Program, Star Wheel activity & Moon Phase activity
<p>Senior & Cadet Girl Scouts:</p> <ol style="list-style-type: none"> 1. Requirement #1,2 & 3 Space Exploration: Skill Builders 2. Requirement #1 Technology 	<ol style="list-style-type: none"> 1. Planetarium Program, Star Wheel activity & Moon Phase activity

March 10, 2012

Webelos and Cubs, *Geology*

9:45 am to 12:30 pm (*check-in begins at 9:30*)

Webelos and Cubs, *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 5 rotations 30 minutes each: 100 scouts total maximum.

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.

Fossil Gallery, travel through geologic time, touch some real fossils, learn the definition of a fossil while completing your scavenger hunt.

2. Rock and Roll lab in addition with volcano poster for drawing activity, classroom two.
3. Fossiliferous lab and Scout Packs handed out, classroom one.
4. Fossil dig & gem panning.
5. All groups end at the store where Tellus patches are available.

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

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 rocks and minerals	3. Scout packs
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

April 21, 2012 - - Geology Scout Day

Webelos & Cub Scouts and Junior Girl Scouts

9:45 am to 12:30 pm (*check-in begins at 9:30*)

Webelo and Cubs 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 mold to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery. Begin your collections when each scout receives a "Scout Pack" consisting of various labeled rocks and minerals with their names and uses. Earn your geology belt loop, activity pin for Cubs and geology badge for Webelos, while having fun at Tellus.

Program will consist of 5 rotations 30 minutes each: 60 scouts total maximum.

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. Fossil Gallery, travel through geologic time, touch some real fossils, learn the definition of a fossil while completing your scavenger hunt.
3. Rock and Roll lab in addition with volcano poster for drawing activity, classroom two.
4. Fossiliferous lab and Scout Packs handed out, classroom one.
5. Fossil dig & gem panning.
6. All groups end at the store where Tellus patches are available.

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	5. Mineral Gallery Magic Planet

which mountains are formed	
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
10. Requirement #9 Collect samples of igneous, sedimentary and metamorphic rocks. Explain how each is formed	10. Rock and Roll lab and Scout packs
11. Requirement #9 Explain difference between a rock and a mineral	11. Mineral gallery interactive

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

2. Requirement #1 Define Geology	4. Will define during program
5. Requirement #2 Collect samples of igneous, sedimentary and metamorphic rocks. Explain how each is formed	4. Scout packs
6. Requirement #3 Explain difference between a rock and a mineral	5. Mineral gallery interactive

Cub Scout Geology Pin requirements fulfilled:

2. Requirement #1 Make a plaster cast of a fossil	4. 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
5. Requirement #2 Scale of Hardness with examples and photos	5. Mineral Gallery tour
6. Requirement #2 Make a collection of rocks and minerals	6. Scout packs
7. Requirement #10 Make a poster showing 10 everyday products that contain or use rocks or minerals	5. Scout packs. Complete at Den meeting with enclosed information

Junior Girl Scouts, *Rocks Rock!*

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 mold to take home in the lab. You'll even be able to pan for real gemstones, dig for fossils and explore the Fossil Gallery. Begin your collections when each Girl Scout receives a "Scout Pack" consisting of various labeled rocks and minerals with their names and uses. Earn a badge while having fun at Tellus Science Museum!

Program will consist of 5 rotations 30 minutes each: 60 scouts total.

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6. Fossil Gallery, travel through geologic time, touch some real fossils, learn the definition of a fossil while completing your scavenger hunt.
7. Rock and Roll lab with satellite and aerial photos, classroom two.
8. Fossiliferous lab and Scout Packs handed out, classroom one.
9. All groups end at the store where Tellus patches are available.

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

Requirements fulfilled:

Activity:

5. Requirement #1 Be a Rock Hound! Start a rock collection	3. Scout Pack
4. Requirement #2 Geo Hunt: Search for clues that show: <ol style="list-style-type: none"> a. where water once covered an area b. where erosion has happened c. where the earth has shifted All right here in Georgia	4. Discussion of satellite photo of Georgia and aerial photo of Allatoona water shed in lab
5. Requirement #3 What type of rock is it? Three major categories of rock	5. Rock and Roll lab
6. 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	7. Mineral Gallery – IRIS screen for where earthquake occurred. Complete what the effects were at next meeting or home
8. Requirement #8 View from Above: Locate from photos; <ol 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) 	7. Drawing from satellite photo of Georgia and discussion of aerial photo of Allatoona water shed in lab
8. 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	9. Fossiliferous lab, scavenger hunt in Fossil Gallery