Summer Exploration Camps • Roper Mountain Science Center •

Look for the New! icon to see the latest camp offerings for your age group.

Register Online at RoperMountain.org

Members only online registration
Monday, February 19 through
Wednesday, February 21

Monday, February 19 is online member registration only, beginning 7:00am. No walk-in registration.

Public registration opens online
Thursday, February 22 at 8:00am.

Butterfly Adventure
June 1 – July 13, 2018

- Explore our butterfly habitat
- Encounter hundreds of butterflies
- Pet a stingray in our Marine Lab
- Discover our Living History Farm
- And so much more...







Roper Mountain Science Center

Summer 2018

Activity-based camps that mix learning and fun!

RoperMountain.org

GREENVILLE COUNTY SCHOOLS
Where Enlightening Strikes!

Summer Exploration Camps

This guide lists all the different hands-on camps offered in Roper Mountain labs, habitats and classrooms. Camps are arranged by the grade your student will complete at the end of this school year. Each camp is filled with exciting activities and materials, many of which campers can take home to extend their experience.

Camp Staff: Instructional staff are professional educators.

Daily Snack: A snack and reusable water bottle are provided for all camps. While we make every effort to avoid allergens, snacks are not guaranteed to be allergen free. You are welcome to send alternate snacks with your child.

Camp Size: Camps are limited to 16 students or less.

Fees: See camp descriptions.

Full Day Camps: Campers should bring a lunch and drink each day. These are not provided. Dress in layers to be comfortable in cool indoor and hot outdoor temperatures, as students will likely spend time outside (weather permitting). Please wear footwear appropriate for outdoor activity (no flip-flops or backless sandals).

Early Drop Off & Lunch Bunch: page 14

Medication Policy: Staff cannot administer medication to students. The only exception to this rule is in the event of an allergy emergency. Students with allergies must keep their medication and written treatment instructions with them at all times.

Behavior Expectations: Campers are required to participate in all camp activities, use appropriate language and show respect for teachers, staff, other campers and the facility. Bullying and violence will not be tolerated. Students who do not exhibit proper behavior will have parents contacted and may be dismissed from camp if behavior is not improved.



Welcome!

We're ready for summer fun here at Roper Mountain! Our **Summer Exploration Camps** feature more than 95 camps in a wide range of topics for students from completed K4 through 9th grade. With returning favorites and more than 30 new camps on the schedule, there's something for everyone!

The very popular **Butterfly Adventure** also returns this summer! Starting Thursday June 1st through Friday July 13th, you'll have the opportunity to immerse yourself in our habitat of hundreds of butterflies and visit Harrison Hall, the Living History Farm and Wildwood, our new natural play area. Butterfly Adventure is open Tuesday through Saturday from 9:00am-3:00pm.

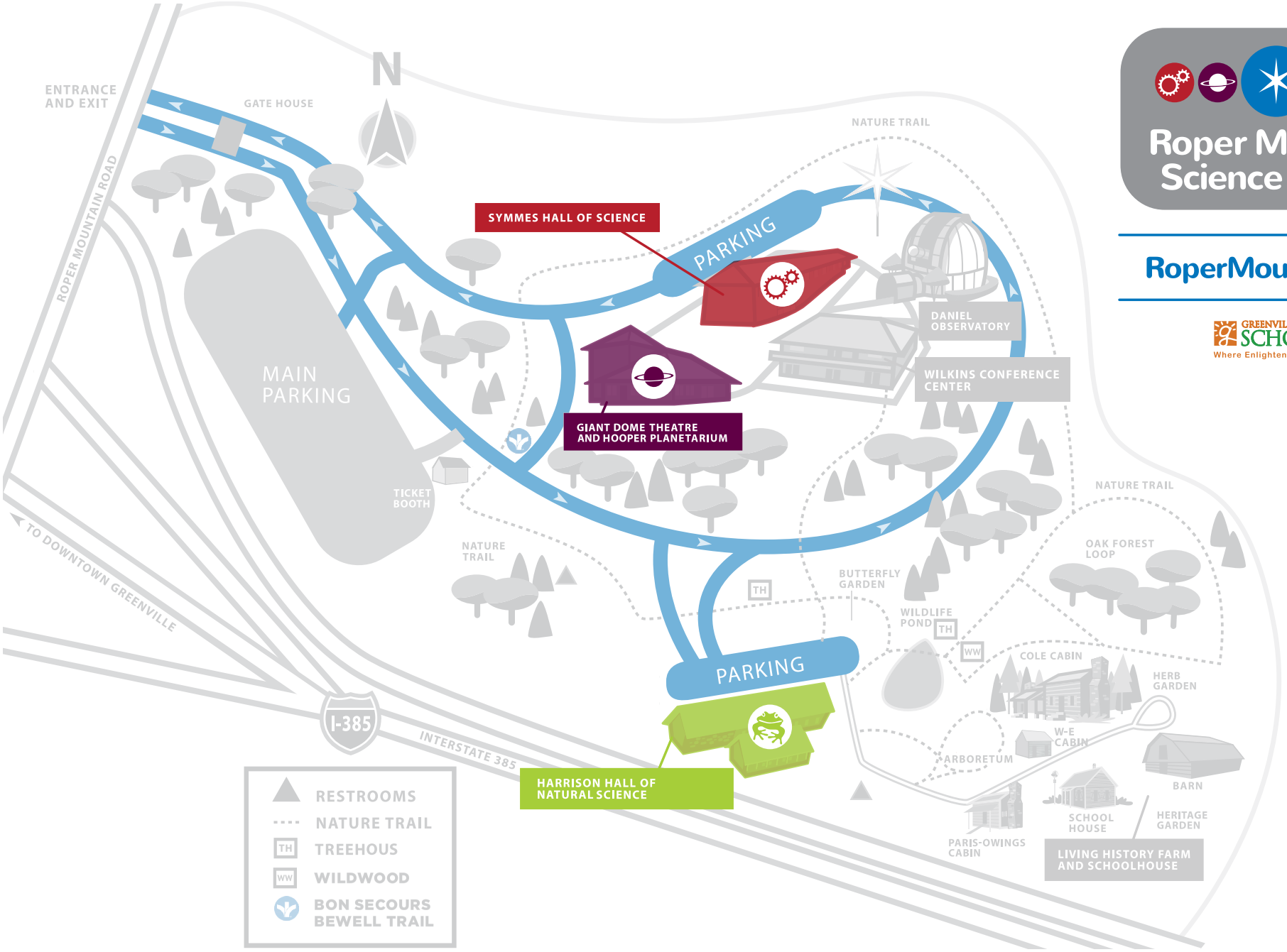
The newly renovated T.C Hooper Planetarium will also be open this summer featuring a new 360° full immersion dome with 4K projection system, new sound system and new lighting. **Summer Adventures** in the Planetarium are now free for Roper Mountain members!

Also new this summer -- laser shows in the Planetarium!
We're still working on finalizing the schedule, but look for more information coming soon.

In This Guide

Use the information below to find all of the camps available for your child's completed grade level.

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Completed Grades K4–K5

Octonaut's Ocean

Come join Captain Barnacles and be part of his crew! This camp is based on the beloved *Octonaut* book series by Meomi. We will explore the ocean and learn about the creatures that live there. Each day we will explore the Marine Lab and learn about ocean habitats. Then we'll have fun with daily crafts or hands-on activities.
Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: K4 and K5
Instructor: Leslie Baxley
Location: Marine Lab
Cost: $115



Fairy Tales at Roper Mountain

We'll listen to some classic fairy tales, then explore the wooded trails, tree houses, gardens and a bridge that would be perfect for a hiding troll! Campers will create arts and crafts based on the fairy tale of the day. We will also sing songs and play games and act them out with puppets. Fairy tales will include *Jack and the Beanstalk, Little Red Riding Hood, The Three Little Pigs,* and more.
Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: K4 and K5
Instructor: Leslie Baxley
Location: Shelter 7/8
Cost: $115

The World Around Us

New!

We'll journey through our walking trails, meet the animals that call the mountain home, take a look through the telescope, and even view RMSC from the sky. Campers will get an in-depth look at how observation can tell them a lot about the world around them.
Session: 1
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: K4 and K5
Instructor: Jasmin Poor
Location: Symmes Hall Lab 4
Cost: $115



Very Hungry Caterpillar

Based on the Eric Carle book, *The Very Hungry Caterpillar*, campers will study his unique style of illustration while we explore caterpillars and compare what they eat in the book to our host plants here in South Carolina. We'll visit the Butterfly Garden and see if we can find signs of butterflies and caterpillars around the mountain. Learn about the life stages of a butterfly and create some crafts to represent each stage.
Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: K4 and K5
Instructor: Leslie Baxley
Location: Mineral Lab
Cost: $115

Completed Grades K5–1

Mini Meteorologist

Do you love learning about the weather? Then this is the camp for you. We will look at weather by season and research what to expect in spring, summer, fall and winter. We'll explore various weather conditions with hands-on experiments. Family and friends are invited the last day of camp to watch us re-enact our favorite weather conditions as mini-meterologists!
Session: 1
Dates: June 18 - 22
Times: 1:00pm - 4:00pm
Completed Grades: K5 and 1
Instructor: Leslie Baxley
Location: Universe Classroom
Cost: $115

Seussapalooza

Oh, the places we'll go!! Come on a fantastic adventure of science fun taken from the pages of Dr. Seuss favorites. There will be stories to read and fun STEM science too. We'll take a microscopic search for Who–ville and Whos, hike to the pond for fun with a turtle named Yertle and make crazy fish. We'll make Truffula Tree Treats and explore Hop on Pop Popcorn Science. Dr. Seuss is on the loose at Roper Mountain, so join us! "We'll have lots of good fun that is funny!"
Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kelly Wright
Location: Symmes Hall Lab 9
Cost: $115

Circus Science

Come one, come all to the Under the Big Top Science Circus! We'll have fun juggling, balancing, doing magic, and even walking on a tightrope. We'll experiment with popcorn, make cotton candy play dough, ice cream clowns and much more! Step right up and dream big at the Science Circus!
Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kelly Wright
Location: Symmes Hall Lab 9
Cost: $115

Completed Grades K5–1

Coding Trailblazers

Journey into the world of coding! We'll start with basic coding concepts, then use a variety of unplugged and online coding activities to refine your skills. Campers will work on individual and collaborative group tasks. Combine creativity with problem solving as you blaze a trail into the knowledge of computer coding!

Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $115

Session: 2
Dates: June 11 - 15
Times: 1:00pm - 4:00pm
Completed Grades: K5 and 1
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $115



10% Members Receive a 10% Discount!

Farm Animals & Garden Fun!

Let's be farmers for a week! Each day we'll visit the barn to feed, care for, and learn about our special farm animals. We'll have fun gardening in our huge vegetable and fruit garden and enjoy healthy snacks from the farm to reward our efforts. There will be funny farm stories and silly games, along with great crafts and projects to take home. Each day will bring new excitement with our sheep, chickens, cow, pig and horse. We will also have fun digging in the garden.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Lisa Dye
Location: Living History Farm
Cost: $115



Kitchen Chemistry

Cook up some chemistry fun and discover all the science experiments that lurk in the kitchen. Students will be encouraged to "play" with their food, make a soda fountain, and use basic items to explore chemistry! Basic safety techniques for common items found in the kitchen will also be introduced.

Session: 1
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Jennifer Brown
Location: Symmes Hall Lab 10
Cost: $115

Session: 2
Dates: July 9 - 13
Times: 1:00pm - 4:00pm
Completed Grades: K5 and 1
Instructor: Jennifer Brown
Location: Symmes Hall Lab 10
Cost: $115

Snow Much Fun

Summer fun has never been so chilly! Join us for a week filled with frozen fun. We'll make instasnow, marshmallow snowmen, frozen slime and so much more! We'll finish our week with a "snowball" fit for royalty. The cold won't bother you when you're having Snow Much Fun!

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Angela Henderson
Location: Universe Classroom
Cost: $115

Session: 2
Dates: June 25 - 29
Times: 1:00pm - 4:00pm
Completed Grades: K5 and 1
Instructor: Angela Henderson
Location: Universe Classroom
Cost: $115

Jungle Tales

Come explore our thriving rainforest and meet our many jungle friends. Each day you will encounter live animals like our umbrella cockatoo, snakes and insects. Investigate our tropical plants, make your own rain stick, and enjoy other activities and games. You'll even get a tropical butterfly plant to take home! Each day of discovery will conclude with tasty tropical treats and a jungle tale!

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Anne Howell
Location: Rainforest Classroom
Cost: $115



Completed Grades 1–2

Solar System Explorers FULL DAY

Your explorer will have an exciting week learning all about our solar system, constellations, and galaxies beyond our own as they make stars, moon craters, and "space globes". We'll learn about the constellations and then make a homemade planetarium to take home. Students will also study our space station and the upcoming mission to Mars. Lastly, students will make their own costumes and write their own lines for a solar system play they'll perform for you!

Session: 1
Dates: June 25 - 29
Times: 9:00am - 4:00pm
Completed Grades: 1 and 2
Instructor: Susan Shaw
Location: Symmes Hall Lab 4
Cost: $265

Animal Habitats FULL DAY

Field Trip!

From rainforest to butterfly garden, and from pond to woodland – each day will bring new adventures as students explore a different habitat theme. We will enjoy engaging story times, creative craft projects, guided outdoor hikes, and live animal interactions. Investigation destinations include the nature trails and gardens, as well as a field trip to the wetland habitats of Conestee Nature Park.

Session: 1
Dates: August 6 - 10
Times: 9:00am - 4:00pm
Completed Grades: 1 and 2
Instructor: Tim Taylor
Location: Ecology Lab
Cost: $275

Little House on the Farm I

What was life like for Laura Ingalls, Ma, Pa, and the rest of her family in the 1870's? We will bring these classic books to life as children try on period costumes, play parlor games, and bake over an open hearth. Campers will enjoy making their own potpourri and dolls. We will help with house, barn and garden chores, including picking garden vegetables and mountain fruit.

Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Lisa Dye
Location: Living History Farm
Cost: $115

Jurassic Giants FULL DAY

Our fascination with these giants of the past never gets old! Campers will go back in time exploring pre-history as they create their own dinosaurs in a habitat they construct. They will learn about the lives and extinction of dinosaurs, make their own fossils, and discover how paleontologists work at dig sites. They will also make a dino terrarium that they will watch grow all week. Finally, students will become a dinosaur in a dino play they will perform for you!

Session: 1
Dates: July 16 - 20
Times: 9:00am - 4:00pm
Completed Grades: 1 and 2
Instructor: Susan Shaw
Location: Paleo Lab
Cost: $265

Animal Detectives

Each student will be paired with an "Animal of the Week" from our collection of live animals (such as turtles, salamanders, snakes, frogs, and mammals) as they learn about animal habits and care. As Animal Detectives, campers will also search for animal clues in our forest and pond through discovery hikes, outdoor hunts and take-home projects, including a millipede habitat.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Tim Taylor
Location: Discovery Room A/B
Cost: $115

Session: 2
Dates: August 13 - 17
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Tim Taylor
Location: Discovery Room A/B
Cost: $115

Looking for LEGO® Robotics?
See Pages 15-17

Silly Slime

New!

Silly Slime! Gooey Gak! Flubber! Kids will explore and enjoy mixing simple ingredients to make over 25 different recipes, while learning the science behind the slimy wonder. We will make magnetic slime, glow in the dark slime, scented slime, edible slime, unicorn slime, and more!

Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Jennifer Brown
Location: Symmes Hall Lab 10
Cost: $115



Crafty Candy Art

Do you like to be creative? Do your parents tell you not to play with your food? They'll let you during this entertaining week of being creative with food! Candy butterflies, a rock candy experiment, and mosaics with skittles are just a few of your artworks that you can bring home, if you don't eat them first!

This camp is not recommended for students with food allergies.

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Donna Frank
Location: Symmes Hall Lab 3
Cost: $115

Session: 2
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Lisa Slice
Location: Symmes Hall Lab 7
Cost: $115

Completed Grades 1–2

Pirates and Buccaneers

Ahoy matey! Discover the world of pirates, privateers and buccaneers. Campers will explore life as a brigand, pirate language, and the pirate code of conduct. Discover how pirates used the stars to navigate the high seas. We'll hunt for treasure and uncover secrets about pirates right here in the Carolinas. Join us, or we may have you walk the plank!

Session: 1
Dates: July 16 - 20
Times: 1:00pm - 4:00pm
Completed Grades: 1 and 2
Instructor: Leslie Baxley
Location: Mineral Lab
Cost: $115

Pop, Bang, Sputter FULL DAY

Campers soak up science as they spend all day experimenting with topics such as surface tension, matter, heat and color. They will be amazed as they create rainbows, silly putty, CO2 poppers, volcanoes, oceans in a bottle and way 'cool' demonstrations. Students will love using their science senses to see how 'egg–citing' exploring science can be!

Session: 1
Dates: June 11 - 15
Times: 9:00am - 4:00pm
Completed Grades: 1 and 2
Instructor: Kelly Wright
Location: Symmes Hall Lab 9
Cost: $265

Young Engineers FULL DAY Academy

Young Engineers get ready to design and create a variety of structures, cars, flying machines, and more! In this fun-filled week, students will learn how to turn simple materials into the amazing ideas of their imaginations. They will test their designs and have the chance to change their designs for re-tests. They will also learn to work in groups to cooperate and create together.

Session: 1
Dates: June 18 - 22
Times: 9:00am - 4:00pm
Completed Grades: 1 and 2
Instructor: Susan Shaw
Location: Symmes Hall Lab 4
Cost: $265

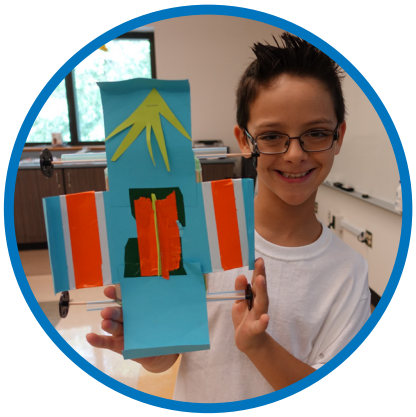
Completed Grades 2–3

Padawan Academy

Are you strong with the force? Star Wars and sci-fi fans are invited to come begin their own Hero's Journey! Campers will explore the world of Star Wars as they take on the role of Padawan and create and learn together. May the force be with us as we learn the ways of the Jedi and have fun in the process!

Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Joe Blizzard
Location: Shelter 7/8
Cost: $115

Session: 2
Dates: July 16 - 20
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Joe Blizzard
Location: Shelter 7/8
Cost: $115



Fast and Furious

Become a junior engineer and design speedy motion machines. Create model cars and planes using rubber bands, bottles, balloons, and other unexpected materials. Protect your passengers in our crash test and egg drop. Design, build, and test zip line racers that glide through the air with ease. Buckle up for a week of fast, furious fun!

Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Tommy Wilkinson
Location: Shelter 7/8
Cost: $115

Magic Tree FULL DAY House Adventure

Go back in time or to distant lands with Jack and Annie! We'll go on magical journeys to faraway lands and ages past: Ancient Greece, Japan and to the Moon. Explore the Amazon Jungle, Ancient Rome and more through crafts, games, discovery, and imagination.

Session: 1
Dates: July 16 - 20
Times: 9:00am - 4:00pm
Completed Grades: 2 and 3
Instructor: Lisa Dye
Location: Shelter 3
Cost: $265

Robotix Challenge FULL DAY

Girls and boys will become "Robonauts" to design and build model robots to undertake simulated missions including rescue, exploration and more. Challenges will include firefighting, an automated kitchen of tomorrow, repairing a space station, automating a cookie factory, diving to the Titanic, robotic Olympics, robotic animals and others. The camp will use the Robotix assembly kits which snap together, and support a wide variety of machines.

Session: 1
Dates: June 11 - 15
Times: 9:00am - 4:00pm
Completed Grades: 2 and 3
Instructor: Bill Bradshaw
Location: Conference Center
Cost: $265

Art in the Field

Campers will develop their observation skills by keeping nature field journals that we make ourselves! We'll use our journals for quick sketches and notes about plants and animals around Roper Mountain. Then we'll develop our sketches into full-color drawings, paintings, collages, etc. and really let our imaginations run wild!

Session: 1
Dates: July 16 - 20
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Katie Steenerson
Location: Rainforest Classroom
Cost: $115

Completed Grades 2–3

Little House on the Farm II

Students will try their hand at the chores, crafts, and way of life that Laura Ingalls and her family experienced. We'll go berry picking, write with quill pens, clean laundry with a washboard, and cook flapjacks like Laura did. Campers will practice simple sewing, attend an old-fashioned school lesson, and explore activities similar to what the books portray.
Little House I camp is not required.
Session: 1
Dates: July 23 - 27
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Lisa Dye
Location: Living History Farm
Cost: $115



MiniBot University

New!

Roll into the world of robotics with Sphero! Campers will use a Sphero Mini rolling robot to explore the world of robots and programming. Each day will bring a new challenge designed to help campers get to know their robots and how to use them. At the end of the week, campers will take their robot home with them. Android or Apple device is needed to use the Sphero Mini at home.
Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Joe Blizzard
Location: Shelter 7/8
Cost: $160

Fast Pass to Roper Mountain

New!

Can't decide which camp you want to do? Then this camp is for you! We will spend each day on a different theme. From exploring outside on the Living History Farm to spending time in the Planetarium. Each day you'll get a Fast Pass to some of the best activities at Roper Mountain Science Center!
Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Donna Frank
Location: Universe Classroom
Cost: $115

Rainforest Rangers

Explore the live Tropical Rainforest and join in on fun, hands-on activities. Meet live creatures, make and take crafts like a rainstick, discover exotic plants, sample tropical fruits and do scavenger hunts in our rainforest.
Session: 1
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins
Location: Rainforest Classroom
Cost: $115

Let's Go Gaming

New!

Do you love playing games? Are you looking for something beyond Monopoly, Scrabble, and Sorry? Well, this is the camp for you! We will learn and play some fantastic modern board games that involve mechanics like drafting, worker placement, and even social deduction! Come have fun, play some games, make new friends, and get some ideas to design your very own game.
Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Carrie Whitlock
Location: Paleo Lab
Cost: $115

Completed Grades 2–4

Junior Master Gardener FULL DAY

Field Trip!

Use herbs to make "sun tea" and cookies, taste veggies right out of the garden, learn a rap about plants, dye your own indigo bandana and make a worm farm. You can do all this and more during Junior Master Gardener camp.
Week 1: Investigate earthworms with "The Worm Lady," prepare your own treats with products from the garden, and experiment with lasagna gardening. We'll take a great field trip to a local farm!
Week 2: Create "Grow Greeting Cards," make a Toad Abode, and go on an insect scavenger hunt with tools you made! We'll take a fun field trip to a local park for a service project.
Session: 1
Dates: July 23 - 27
Times: 9:00am - 4:00pm
Completed Grades: 2, 3, 4
Instructor: GMG Volunteers
Location: Shelter 2 & Gardens
Cost: $180

Session: 2
Dates: July 30 - August 3
Times: 9:00am - 4:00pm
Completed Grades: 2, 3, 4
Instructor: GMG Volunteers
Location: Shelter 2 & Gardens
Cost: $180



10% Members Receive a 10% Discount!

Completed Grades 3–4

Junior Web Designers FULL DAY

There's no better way to present a school project then with a well-designed webpage! Campers will learn how to design a webpage utilizing HTML and CSS foundational coding language. In addition to basic coding concepts, students will learn skills like organizing text and data on a web page, inserting images, using different fonts and colors, creating borders, and more! Get ready to impress your teachers as you "show what you know" in the form of an awesome webpage!

Session: 1
Dates: June 18 - 22
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $265

Session: 2
Dates: June 25 - 29
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $265

Young Scientist FULL DAY

Discover the fast-paced world of motion using marble rollercoasters, balloon rockets, paper airplanes, gears, wheels and axles. Students will learn about friction, gravity and Newton's laws as they have fun designing, building and experimenting with each of their creations to meet our daily challenges. Our young scientists will take home activities and materials to share their adventures with friends and family.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Angela Henderson
Location: Symmes Hall Lab 9
Cost: $265

Register Online
RoperMountain.org

Marine Explorers

Explore the Marine Lab and its residents, dissect a squid, learn to identify seashells, and discover the relationships between marine animals. Learn about the deep ocean, coral reef, and coastal habitats, including the vast estuaries and salt marshes of South Carolina. Learn how humans affect the oceans and what you can do to preserve our ocean environment. Study the loggerhead sea turtle and other endangered marine creatures. Learn about the horseshoe crab's great contribution to medical science as you handle it and other creatures from the Marine Lab's Touch Tank.

Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Lisa Slice
Location: Marine Lab
Cost: $115

Session: 2
Dates: July 16 - 20
Times: 1:00pm - 4:00pm
Completed Grades: 3 and 4
Instructor: Lisa Slice
Location: Marine Lab
Cost: $115

Session: 3
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Laura Thomas
Location: Marine Lab
Cost: $115

Illusioneering

Calling future magicians! Come learn about basic illusions and the science (and trickery) behind them. Investigate magic props and even build a couple of your own. Understand the art of presenting and have a chance to be a part of a magic show on the last day. What are you waiting for? Sign up before all of the spots disappear!

Session: 1
Dates: June 11 - 15
Times: 1:00pm - 4:00pm
Completed Grades: 3 and 4
Instructor: Joe Blizzard
Location: Symmes Hall Lab 8
Cost: $115

Camp Shakespeare FULL DAY

Journey through time to the Globe Theater as we explore some of Shakespeare's greatest works. Each day, we'll focus on a different play while also working on performing scenes from The Bard's legendary story, A Midsummer Night's Dream. Along the way we'll examine what it takes to put on a play from prop production to staging techniques.

Session: 1
Dates: June 11 - 15
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Jessica Moore
Location: Symmes Hall Lab 4
Cost: $265



Sweet Science: Candy Making

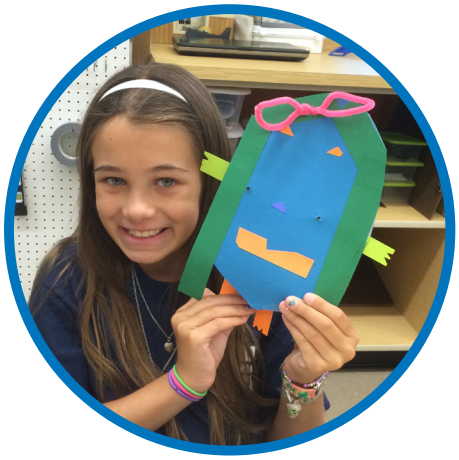
Explore physical science concepts as you follow simple recipes to make candy. We will see how combinations of particular ingredients and changes in temperatures, create mixtures and solutions that make for a sweet treat to eat.

This camp is not recommended for students with food allergies.

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Jennifer Brown
Location: Symmes Hall Lab 10
Cost: $125

Completed Grades 3–4

SciGirls



SciGirls
Calling all SciGirls! As part of our SciGirls Connect partnership campers will have access to explore and create with technology, engineering and nature! We'll explore squishy circuits and high tech fashion, take design challenges, play games, be citizen scientists and journey to the stars in a special visit to our Planetarium.
Session: 1
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Val Mosher
Location: Symmes Hall Lab 9
Cost: $115

Junior Naturalist FULL DAY
2 Field Trips!
In this nature camp, students will conduct investigations through explorations and discoveries in the woods and in the waters of Roper Mountain and at Paris Mountain State Park. Junior naturalists will develop skills necessary to appreciate the outdoors and learn to read clues from nature. Inside the lab, students will practice nature ID skills, make collections, study live animals and help feed our animals.. Camp includes two field trips to Paris Mountain State Park including swimming in the park lake on Thursday!
Session: 1
Dates: July 16 - 20
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Tim Taylor
Location: Ecology Lab
Cost: $285

Fort Building
Build an awesome fort that you design! We'll provide the materials and instruction needed to construct the fort of your dreams. Besides building with hand tools (like hammers, saws, and wrenches), we'll have fun playing games, especially when you defend your fort on WATER day! A campfire on Thursday night will be a great ending to a super fun week! Individual supervision will be given to every group to ensure the safety of each structure.
Session: 1
Dates: July 23 - 26
Times: 9:00am-12:00 noon M-Th, and 5:30pm - 8:00pm Thursday
Completed Grades: 3 and 4
Instructor: Dana Darling
Location: Living History Farm
Cost: $160

Session: 2
Dates: July 30 - August 2
Times: 9:00am-12:00noon M-Th, and 5:30pm - 8:00pm Thursday
Completed Grades: 3 and 4
Instructor: Dana Darling
Location: Living History Farm
Cost: $160

Hidden Pictures® Discovery Workshop
New!
Discover how to discover hidden things in nature! We'll use our powers of observation together with creative artistry to make Hidden Pictures®. Led by Tim Davis, Highlights magazine's most prolific Hidden Picture® artist, creative kids will learn to use visual hide and seek techniques in drawings and in the real world.
Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Tim Davis
Location: Discovery Room A/B
Cost: $115

10% Members Receive a 10% Discount!

Junior Rocketry
We'll construct straw rockets, launch bottle rockets, and build and launch our own Alpha III rocket! Learn all about beginning concepts in rocketry, Newton's laws of motion, basic flight principles and more during this fun–filled camp especially designed for Junior Rocketeers.
Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Latongia Pepper
Location: Symmes Hall Lab 10
Cost: $115

Session: 2
Dates: June 11 - 15
Times: 1:00pm - 4:00pm
Completed Grades: 3 and 4
Instructor: Latongia Pepper
Location: Symmes Hall Lab 10
Cost: $115

One Small Square In My Backyard
New!
Come join us as we explore our backyard, using the favorite children's book *One Small Square: Backyard* by Donald M. Silver. Each participant will receive a copy of the book along with a field kit for exploring their own backyard. Learn how to make your own discoveries and identify local plants and animals. We will make daily crafts to take home!
Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Kyle Rollins
Location: Rainforest Classroom
Cost: $135

More Grade 3-4 Camps on the Next Page!

Completed Grades 3–4

Space Adventurers
New!

Blast off with us to explore the vast reaches of outer space. Through daily challenges we will design and create models of our own space exploration missions, including vehicles for our missions. We will visit the observatory and the planetarium, and build our own tools for making observations of the sky. We will also design, build and launch various types of rockets. Join us for this hands-on approach to learning the history and future of space exploration.
Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Jenn Romatelli
Location: Universe Classroom
Cost: $115

Acting Up! FULL DAY Geology Rocks
New!

Professor Rock has disappeared! Students will craft a drama production from storyboard to stage to lead us on a quest to find him. Along the way they'll meet volcanoes, sea shores, canyons, suspicious ferns, and even Snow White -- and learn about the Earth's geological cycles and features as they go. Who's behind Professor Rock's disappearance, and will he ever be found? Drama meets geology in this fun and engaging camp.
Session: 1
Dates: June 18-22
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Jasmin Poor
Location: Auditorium
Cost: $265

Register Online
RoperMountain.org

Completed Grades 3–5

Culinary Kids
Field Trip!

Culinary Kids is a fun camp designed to teach a variety of cooking skills such as reading and following recipes, using measuring tools, menu planning, and food safety. This week will include preparation and cooking of appetizers, main courses, and desserts. Campers will also spend a day at Greenville Tech's Culinary Arts Institute working with one of the chefs. If your child loves to hang out in the kitchen, then this is the camp for them!
This camp is not recommended for students with food allergies.
Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Anne Howell
Location: Symmes Hall Lab 9
Cost: $150



Session: 2
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Anne Howell
Location: Symmes Hall Lab 9
Cost: $150

Bloxels
New!

Video Game Design
Bring your imagination, creativeness, and love for video games by joining our design team. Utilizing the Bloxels design kit and app, you will learn how to create and play your video game. You create and design the characters, the levels, and the actions all from your imagination which is transferred into a real game that can be shared with friends and family.
Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $115

Session: 2
Dates: July 23 - 27
Times: 1:00pm - 4:00pm
Completed Grades: 3, 4, 5
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $115

Sketch, Carve, Create
New!

Using relief printmaking methods we will develop our art work from sketch, carve our own relief block and bring our masterpiece to life through paper and fabric printing. We will discover new terminology and relief printing methods as we experiment and add to our sketch book. Each student will create foam and carved rubber blocks. We will finish our week by printing t-shirts.
Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Kristin LaRoy
Location: Mineral Lab
Cost: $115

Potions and Lotions
The Art of Cosmetic Chemistry
Nail polish, lip gloss, and your own personal scent... what could be more fun than making your own!? Campers will explore the art of beauty, interesting ingredients, and the cosmetic chemistry that makes it all possible!
Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Gena Greer
Location: Symmes Hall Lab 3
Cost: $115

You've Been Slimed
New!

Slime is cool! Slime is science! Kids will explore polymers and non-Newtonian fluids by following basic 3-4 ingredient recipes to create edible slime, thermo chromic slime, magnetic slime, glow in the dark slime, and up to 20 more slime types!
Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: 3, 4, 5
Instructor: Jennifer Brown
Location: Symmes Hall Lab 10
Cost: $115

Completed Grades 4–5

Disaster Engineering FULL DAY

Push your skills and designs to the limits! Test how much weight your bridge can hold, how well you can control water in a flood, how to clean up an oil spill, build a hurricane resistant structure and see if your engineering abilities can withstand a simulated earthquake. We'll design, build, destroy, and build! Come use your creative skills to save the day!

Session: 1
Dates: July 23 - 27
Times: 9:00am - 4:00pm
Completed Grades: 4 and 5
Instructor: Susan Shaw
Location: Paleo Lab
Cost: $265



How and Why of CSI

Field Trip!

Probe the mysteries of fingerprints, blood drops, mystery powders, DNA, bones and a variety of clues that might be found by CSI investigators. A visit to a real crime lab is planned for one day of this busy week of crime solving. Put on your thinking cap, grab a magnifying glass and dig into the evidence! Field trip is subject to availability of the lab.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Melanie Helling
Location: Symmes Hall Lab 3
Cost: $125

Castles & Catapults

Calling all Lords and Ladies to the round table! Discover the fascinating world of knights and the Middle Ages as you create your own castle and learn how to defend it. Design your own coat of arms and shield suitable for a knight in shining armor. We'll end our quest with a fun Medieval Faire.

Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Jenn Romatelli
Location: Design Lab
Cost: $115



Web Architects FULL DAY

New!

Learn today what you can build for the future! This course teaches campers how to use the foundational language of web site coding, HTML and CSS, to create awesome websites. By the end of the week, our architects will be able to construct a website with interactive features that gives them skills to take to their future classrooms for project based learning opportunities.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 4:00pm
Completed Grades: 4 and 5
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $265

Completed Grades 4–6

Harry Potter Science FULL DAY

Inspired by J.K. Rowling's Harry Potter book series. Muggles are welcome to participate in this enchanting camp. After being sorted into Gryffindor, Slytherin, Ravenclaw, or Hufflepuff, you'll enter the magical world of real science. Brew amazing concoctions in Potions class. Make your own broom and compete in a Quidditch Tournament. Uncover the mysteries of amazing plants in Herbology. Explore the stars in Astronomy. Discover Fantastic Beasts. Choose a wand to suit your botanical style. At the end of the week you will earn your O.W.L. certificate by competing in a quiz contest. The winning team will be awarded the House Cup! Join us for a magical week.

Session: 1
Dates: August 6 - 10
Times: 9:00am - 4:00pm
Completed Grades: 4, 5, 6
Instructor: Various
Location: Various; Drop off and Pick Up at Symmes Hall
Cost: $265



Completed Grades 4 – 6

Garage Band FULL DAY

New!

Is there a musician inside of you just dying to get out? Let this dream become a reality by creating music digitally through the Apple app "Garage Band". You will learn how to create different tracks involving various instruments and bring them together to make sounds of music! So, bring your love of music and your need to rock out and let's start a GARAGE BAND!

Session: 1
Dates: July 9 - 13
Times: 9:00am - 4:00pm
Completed Grades: 4, 5, 6
Instructor: Katie Kerechanin
Location: Symmes Hall Lab 2
Cost: $265

Delicious Desserts

Field Trip!

Do you have a sweet tooth? During this week, confectioners will make sweet treats that will please the palate as well as the eye. Visit a real chocolate kitchen one day on a field trip to Kilwins Chocolates, Fudge & Ice Cream. At the end of the week, guests will be invited for a sampling of everything the students have made.

This camp is not recommended for students with food allergies.

Session: 1
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 4, 5, 6
Instructor: Landon Clark
Location: Symmes Hall Lab 9
Cost: $150

Native American Explorations

New! Field Trip!

We will explore traditional Native American uses of natural resources as you participate in hands-on crafting activities with upstate plants, animals, rocks and minerals. Students will create tools, collect medicinal plants, and learn the important role that storytelling plays in keeping these traditions alive. We will also take a half-day field trip to visit the Hagood Mill Petroglyph Site to observe the ancient drawings that are preserved there.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 4, 5, 6
Instructor: Kyle Rollins & Lorie Thibodeaux
Location: Ecology Lab
Cost: $125





Search for ET FULL DAY

New!

Does life exist in the Milky Way Galaxy beyond Earth? We'll explore the science of past, present and future robotic and astronaut missions to Mars and beyond, and look at how science fiction literature and movies consider this question. Other questions to be explored: What are the requirements of life on Earth? Can you design a robot to land on Mars and return a soil sample? How about a robotic submarine to explore the hidden depths of Europa? There are no limits to where we can go in our Search for Extraterrestrial Life!

Session: 1
Dates: June 18 - 22
Times: 9:00am - 4:00pm
Completed Grades: 4, 5, 6
Instructor: Bill Bradshaw
Location: Conference Center
Cost: $265

Completed Grades 5 – 7

Rocketry

This action packed week begins with an exploration of the physics of rockets, then leads into basic concepts of rocketry. The program includes everything needed to construct and launch the three model rockets built during class. We will be using sharp tools in the building process, and model building requires patience for fine detail work. Students will receive the three rocket kits, a launch pad, launch control system, and all materials needed for one launch. Families are invited to join us for our Friday launch .

Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Greg Cornwell
Location: Astronomy Classroom
Cost: $160

M.A.D. Lab

Make and Design lab is the place where design and technology meet! You will learn 3D computer modeling and be challenged to create and design objects and then MAKE them using 3D printers. If you can design it, you can make it (think bracelets, cell phone attachments, game pieces, musical instruments and more!). Campers will work as teams on real-world design challenges and will explore maker activities (including cardboard and duct tape of course!).

Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Chris Beyerle
Location: Symmes Hall Lab 8
Cost: $115

Imaginary Creatures

Creative digital drawing from real-world inspiration

Students will work together to create a field guide of imaginary creatures by exploring the various specimens and reference materials available at the science center. They will develop and refine their ideas utilizing a variety of traditional and digital drawing techniques. By the end of the camp each student will have created a new creature to document in the form of a finished digital illustration.

Session: 1
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Chris Steenerson
Location: Symmes Hall Lab 2
Cost: $115

Completed Grades 5–7

House Rules FULL DAY
New!

Tabletop Game Design

Have you ever tweaked a game with your own rules? Have you ever made up your own game? If you like to design, create, play and craft games, then House Rules is the game for you! We'll study many types of games from cards to dice, from strategy-based to turn-based games, from big to small, we'll play them all! We will spend the week, playing, tweaking, designing, creating and crafting all kinds of games. Bring your best ... Game On!

Session: 1
Dates: August 6 - 10
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Loyd Henderson
Location: Astronomy Classroom
Cost: $265

Master Web Builders
New!

Come to this camp not just to learn how to design websites, but to become a master web builder! We will accelerate through the basics to interactive web page creation. You will learn the basics of Javascript so that you can utilize this powerful coding language to create websites that not only display information, but also allow interaction between the user and the site itself. Don't become just a web builder, become a MASTER Web Builder!

Session: 1
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: $115

Second Nature
New!

Turning Natural Objects Into Abstract Art

Campers will tour Roper Mountain and make sketches of the plants and animals they see along the way. Later, they will create designs based on those sketches. We'll learn a bit about abstract art and the elements and principles of design. Then we'll turn those designs into finished paintings on canvas.

Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Katie Steenerson
Location: Symmes Hall Lab 3
Cost: $115

Upstate Ecology FULL DAY Field Studies
2 Field Trips!

Students will use soil funnels, tracking stations, mist nets and other collecting techniques to survey, capture and examine wildlife in various Upstate habitats. An all-day field trip will take us to the Southeast's most active bird banding station in Rock Hill, SC, where we will experience the thrill of capturing ruby-throated hummingbirds and other bird species and releasing them back into the wild. Our half-day field trip will take us to a swift mountain stream and waterfall in Pickens County to collect and analyze invertebrates living in the stream's riffle zone. Campers will spend plenty of time at Roper Mountain, using special equipment to examine our pond habitat. In the Ecology Lab, students will conduct animal behavior studies, construct nature casts, and create a "Treasures from Nature" display to take home and showcase the week's activities.

Session: 1
Dates: July 23 - 27
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Coby Dixon
Location: Ecology Lab
Cost: $300

Digital Movie Making FULL DAY

Campers will learn how to be a movie director and technician as they create a live action film in this fun-filled movie production camp. In this camp, you will learn how to use computer movie-editing software along with video still images to create professional-looking movies that you can share with family or friends and even create eye-popping documentaries for your school projects! Each day will be packed with film-making activities. Present your movie to parents on Friday.

Session: 1
Dates: July 9 - 13
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Loyd Henderson
Location: Astronomy Classroom
Cost: $265

Session: 2
Dates: July 16 - 20
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Loyd Henderson
Location: Astronomy Classroom
Cost: $265

Theme Park Designer
New!

Have you ever dreamed of becoming a theme park designer? In this camp, you can build the theme park of tomorrow! Learn how to create and control a working theme park model using Arduinos and augmented reality links for added extra fun!

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 8
Cost: $115



Ordinary to Extraordinary: Art of Recycling

Students will turn trash and other everyday objects into treasure, transforming bottle caps, duct tape, discarded records and books into beautiful works of art! Using a variety of art and craft techniques including painting, sculpture, origami and collage, the ordinary will become extraordinary. Family and friends are invited to an exhibit at the end of the session to see the finished creations.

Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Bronwyn White
Location: Design Lab
Cost: $115

More Grade 5-7 Camps on the Next Page!

Grades 5 - 7

Super Force X FULL DAY
Live Action Comic Lair

New!

Are you a super-fan of comic books and comic-inspired movies? Our super guild makes hero uniforms, support devices, action vehicles in our secret lairs/headquarters. We'll also create comic strips, GIFs, and short films to promote our super services to the world. Super Force X is looking forward to saving the world with you!

Session: 1
Dates: August 6 - 10
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 3
Cost: $265

Survivor Training Grounds

FULL DAY

Do you have what it takes to survive? Learn about what humans need to survive and how to use what you can find to meet those needs. Campers will work as groups to play the ultimate game of survival and stand up to what nature throws at them!

Session: 1
Dates: June 11 - 15
Times: 9:00am - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Ken Morrill
Location: Shelter 7/8
Cost: $265

Nature By Design

New!

Students will explore their natural surroundings to find inspiration and material to create a variety of art works. From drawing and painting to sculpting and printmaking, these nature artists will hone their design skills and end the week with an exhibit of their work to be shared with family and friends.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Bronwyn White
Location: Design Lab
Cost: $115

10% Members Receive a 10% Discount!

Ages 12+

Zombie FULL DAY
Mountain Escape

Do you long for a chance to walk among the undead? This is your chance! Campers will explore the world of zombies and the science and myths behind them. They will practice zombie survival skills, create defense techniques, and have a chance to see if they have what it takes to escape from Zombie Mountain!

This camp is not recommended for students of a sensitive nature. No age exceptions will be allowed.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Joe Blizzard
Location: Shelter 7/8
Cost: $265

Drone Tech Flight School

New!

Pilots ready! Enter the exciting world of drone technology. You will learn how to build, fly, and repair a first person view (FPV) racing drone. From soldering the components to the maiden flight, and various challenges, campers will learn about electronics and robotics in a new and exciting way.

DRS will offer a 10% discount for campers to purchase a drone starter kit.

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: David Schlitter
Location: Astronomy Classroom
Cost: $150

VEX Robotics

In this advanced robotic design course, you will build a VEX robot and learn the basic fundamentals of how to operate, program and control it. Then see what it takes to make your robot successful in various challenges.

Session: 1
Dates: June 18 - 22
Times: 1:00pm - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Chris Beyerle
Location: Symmes Hall Lab 7
Cost: $115

Just Plane Fun

2 Field Trips!

Interested in aviation and aerospace? Learn about aviation history, the physics of flight, and the design and maintenance of aircraft. We will spend a day at the Greenville Downtown Airport to see and work with airplanes up close, visit the air traffic control tower, go behind the scenes of an airplane maintenance shop, and work one on one with a pilot before going up on a flight! Another day will be spent at the Byrnes High School aviation lab experiencing flight simulators and flying remote control airplanes. Campers will also learn about the many careers and hobbies in aviation by meeting aircraft engineers and pilots.

Session: 1
Dates: July 23 - 27
Times: 12:30pm - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Glenn Sparkman
Location: Symmes Hall Lab 10
Cost: $210

Session: 2
Dates: July 30 - August 3
Times: 12:30pm - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Glenn Sparkman
Location: Symmes Hall Lab 10
Cost: $210

Laugh Factory

Creating Comedy Gold

Do you love to make people laugh? This camp is an introduction to improvising a comedy scene focusing on fundamentals of agreement, relationship, character, and environment. Showcase your new skills with a performance for family and friends on the final day of class. Instructor Harrison Brookie is a trained educator who has taught high school history and improvisation, and is currently the executive producer and artistic director of the Alchemy Comedy Theater here in Greenville. *No previous theater or improv experience required.*

Session: 1
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Harrison Brookie
Location: Auditorium
Cost: $115

Ages 12+

Tinker & Tech

Come tinker your way through the world of electricity and electronics. Campers will learn and apply basic electronic concepts. Solderless circuit boards will be used to construct a variety of projects including burglar alarms, automatic night lights, police sirens, and more. Campers will also learn how to solder real components to a circuit board. This is the most electrifying camp we offer!

Session: 1
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Rick Schwartz
Location: Symmes Hall Lab 8
Cost: $115

Session: 2
Dates: July 23 - 27
Times: 1:00pm - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Rick Schwartz
Location: Symmes Hall Lab 8
Cost: $115



Advanced Digital Movie Making FULL DAY

Campers will continue working with video editing software to create special effects. Emphasis will be on story-telling using quality editing techniques. Explore green-screening, color filters, sound FX, voice-overs and narration, audio mixing, and titling. Each day will be focused on another tool to use in making digital movies. Present your movie to parents on Friday.
Digital Movie Making recommended but not required.

Session: 1
Dates: July 23 - 27
Times: 9:00am - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Loyd Henderson
Location: Astronomy Classroom
Cost: $265

Advanced Rocketry

New!

Take your model rocket building skills to the next level. This camp is recommended for students who have taken either Rocketry or Jr. Rocketry, or have other previous experience with detailed model building. We will build three rockets that are more advanced than those built in the Rocketry camp. Students in this camp will be using sharp tools and spray paint, and will need patience and determination for fine detail work. On the last day of camp, weather permitting, we will travel to a nearby open field to launch our rockets. Launch pads will be provided for launch day, but are not included for take home in this camp. All materials needed for a single launch (engines, and igniters) will be provided.

Session: 1
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Jenn Romatelli
Location: Astronomy Classroom
Cost: $160

Creative Carpentry

New!

Learn how to build a fun wood project using basic techniques, tools and machines commonly found in a woodshop. Students will learn real-life skills as they safely use a variety of woodworking tools like hand saws, drill drivers, hammers, clamps, orbital sanders, compound miter saws, drill presses, and shaper tables to create a ping pong ball shooter. No matter what their level of experience, from Dad's tool getter, to the weekend fort builder, or budding maker, this camp is geared to bring out your inner engineer.

Prior to camp start, parents must complete a "Safety Release and Permission to Use the Tools & Machines" form.

Session: 1
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Rick Schwartz
Location: Astronomy Classroom
Cost: $125

Session: 2
Dates: July 30 - August 3
Times: 1:00pm - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Rick Schwartz
Location: Astronomy Classroom
Cost: $125

Summer Volunteer Opportunities

Roper Mountain is seeking enthusiastic, committed student volunteers to help with camps this summer! Volunteers may be assigned to specific camps, early drop off, lunch bunch and/or general camp assistance as needed.

Volunteers must:

- Be at least 14 years old as of June 1, 2018
- Be at least 2 grades higher than the highest grade level for any camp to which they are assigned
- Commit to the entire duration of the camp to which they are assigned (not longer than 1 week)

Volunteer opportunities are limited. Students will be selected and placed into camps based on their availability and our volunteer needs. When possible, we will match volunteers with their preferred camps. Volunteer forms received prior to May 1, 2018 will receive priority consideration.

Find the volunteer application on our website at www.ropermountain.org



Looking for LEGO® Robotics?
See Pages 15-17

Boy Scout Merit Badges

The NOVA Award program consists of individual activity elements in various STEM (Science, Technology, Engineering, Math) topics that are designed to encourage interest and to increase participation in STEM by making it relevant and fun! Register for as many Merit Badge Camp classes as you wish. Classes are taught by professional staff instructors in exciting science labs. Most badge requirements should be met. Scouts should read the merit badge pamphlet prior to the class and bring the pamphlet to the class. Wear your Class B uniform, if possible.

Environmental FULL DAY

This full day class will include a field study trip to Lake Conestee Nature Park and studies at Roper Mountain. Some follow-up work will be due back after this class. Prior to the class, complete requirement #2 and #3f (1 or 2) if possible and bring to class to help complete this merit badge.
Session: 1
Dates: Monday, June 11
Times: 8:30am - 4:00pm
Completed Grades: 6, 7, 8, 9, 10, 11
Instructor: Tim Taylor
Location: Ecology Lab/Offsite
Cost: $65

Reptiles/Amphibians

This study will use live reptiles and amphibians from our displays. We will also go to our ponds and woods to see live "herps." Prior to the class, complete requirement #8 if possible and bring records to class to complete this merit badge.
Session: 1
Dates: Monday, July 23
Times: 8:30am - 12:30pm
Completed Grades: 6, 7, 8, 9, 10, 11
Instructor: Tim Taylor
Location: Discovery Room A/B
Cost: $35

Bird Study

Go birding in the field to identify birds for a field notebook. Study birds in our labs with real specimens. Prior to class, complete requirement #8 and bring proof to class to help complete this merit badge.
Session: 1
Dates: Monday, June 25
Times: 8:00am - 12:30pm
Completed Grades: 6, 7, 8, 9, 10, 11
Instructor: Tim Taylor
Location: Ecology Lab
Cost: $35



Insect Study

Catch and observe insects in our gardens for a scrapbook. Learn about the life cycles of butterflies and bees through our displays. Classify and identify insects with real specimens.
Session: 1
Dates: Monday, July 9
Times: 8:30am - 12:30pm
Completed Grades: 6, 7, 8, 9, 10, 11
Instructor: Tim Taylor
Location: Discovery Room A/B
Cost: $35

Forestry

Collect and identify common tree leaves for your field notebook. Study tree cross-sections and learn about forest management with the aid of a forester.
Session: 1
Dates: Tuesday, July 24
Times: 8:30am - 12:30pm
Completed Grades: 6, 7, 8, 9, 10, 11
Instructor: Tim Taylor
Location: Discovery Room A/B
Cost: $35

Early Drop-off

- For campers attending half or full day camps that begin at 9:00am
- Campers will meet at Symmes Hall of Science (top of the mountain) beginning at 7:30am This will not be structured time.
- Early drop-off campers must arrive by 8:30am (Arrivals after 8:30am should report directly to their camp location.)
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $40 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

Lunch Bunch

- Supervised lunch stay between your morning and afternoon camps.
- Campers must bring their own lunch – **no food is provided!**
- No structured activities will be provided.
- Participants in full day camps should not sign up for Lunch Bunch as supervised lunch is part of their full day program.
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $25 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

LEGO® Robotics

Which LEGO® Robotics camp is right for your student?

The chart below is a handy reference guide to all the robotics camps we offer. Campers may only register for age appropriate camps; no age exceptions will be made. "Grade" refers to the school grade your student will complete this year and/or the age corresponding to that year.

	No Experience Required	Experience Preferred	WeDo Platform	NXT Platform	EV3 Platform	Focus on Building	Focus on Programming	Non-Robotic Challenges	Advanced Programming
Beginner Robotics Grades 1, 2	●		●			●	●		
WeDo Advanced Grades 2, 3	●		●			●			
Lego Design Engineer Grades 2, 3	●		●				●		
Machine Mania Grades 3, 4	●			●				●	
Robot Builder Boot Camp Grades 4, 5	●				●	●			
Challenge Bots Grades 4, 5, 6	●				●		●	●	
Robot Academy Grades 4, 5, 6	●				●				
Maze Bot Grades 5, 6, 7	●				●		●		●
Sumo Bot Grades 5, 6, 7		●			●	●	●		●

Beginner Robotics

Time for an early introduction to robotics! Using the LEGO® WeDo robotics kits and software, campers will build several different robots including an alligator, a rescue airplane, a toy spinner and more! Using motors and sensors, campers will build and program robots to complete actions and behaviors. Drag and drop software provides an easy-to-use programming environment suitable for beginners.



Session: 1
Dates: June 11 - 15
Times: 1:00pm - 4:00pm
Completed Grades: 1 and 2
Instructor: Kim Roberts
Location: Symmes Hall Lab 1
Cost: $115

Session: 2
Dates: June 18 - 22
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Cost: $115

Session: 3
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Cost: $115

Session: 4
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

Session: 5
Dates: July 16 - 20
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Cost: $115

Session: 6
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

LEGO® Robotics

WeDo Advanced

Ready to take your LEGO® robotics building to the next level? This camp is for you! Campers will build larger and more complex robots including a tower crane, a Ferris wheel and a remote control car! A day will also be set aside for students to design their own themed working robots to share with their classmates. This camp builds on our Beginner Robotics program and is recommended for students who love building with LEGOs® and are interested in learning basic programming.

Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kim Roberts
Location: Symmes Hall Lab 1
Cost: $115

Session: 2
Dates: June 18 - 22
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

Session: 3
Dates: June 25 - 29
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

Session: 4
Dates: July 16 - 20
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

Lego Design Engineer

Using the LEGO® Wedo 2.0 kits and software, campers will build creative robots with the opportunity to design their own modifications to the robot and programing. Lego Design Engineers will use their robots to enter real-world scenarios including a rescue helicopter, plants and pollinators, and prevent a flood with a robot controlled flood gate. This camp builds on our Beginner Robotics program and is recommended for students who are interested in creative challenges in programming and basic building.

Session: 1
Dates: July 9 - 13
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115

Session: 2
Dates: July 23 - 27
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Cost: $115

Session: 3
Dates: July 30 - August 3
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Cost: $115



Machine Mania

LEGOs®, Contraptions, Action! Ideal for the student that loves to build but is ready to start some simple programming. We will explore machines and the roles of pulleys, l evers and gears. Then it's on to building contraptions using NXT Mindstorm robotics devices (think mousetraps and dragsters!). Our final build will be a custom robot that will navigate through an obstacle course!

Session: 1
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Kathie Fox
Location: Symmes Hall Lab 7
Cost: $115

Session: 2
Dates: July 30 - August 3
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Kathie Fox
Location: Symmes Hall Lab 7
Cost: $115

Robot Builder Boot Camp

Calling all LEGO® robot builder enthusiasts! We're looking for a few good recruits to come join our ranks to build some amazingly awesome bots. These are not your little brother or sister's robots! Ready to rock n' roll? Build a robotic guitar! Do you doodle? Build a Doodle-Bot! Or are you inspired by nature? We even have puppy and bunny bots. Of course, no bot boot camp would be complete without a reptilian raptor complete with fangs! Build, play, explore! Booyah!

Session: 1
Dates: August 6 - 10
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Coby Dixon
Location: Symmes Hall Lab 8
Cost: $115

Register Online
RoperMountain.org

10% Members Receive a 10% Discount!

LEGO® Robotics

Robot Academy

Campers will be introduced to the LEGO® EV3 robotics technology. They will work in teams to build and program a robot to accomplish missions in the Green City challenge. Concepts taught include basic moving, turning, and introduction to the EV3 sensors. This is an introductory robotics camp designed for beginners.

Session: 1
Dates: June 11 - 15
Times: 9:00am - 12noon
Completed Grades: 4, 5, 6
Instructor: Coby Dixon
Location: Symmes Hall Lab 7
Cost: $115

Session: 2
Dates: June 11 - 15
Times: 1:00pm - 4:00pm
Completed Grades: 4, 5, 6
Instructor: Coby Dixon
Location: Symmes Hall Lab 7
Cost: $115

ChallengeBots

Build a LEGO® Robot and compete in "Hunger Games" style challenges (non-lethal version)! You will start in the training arena to learn EV3 programming, and then build a chariot to represent your district and show your creatvity. Then the games will begin! May the bricks be ever in your favor!

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 4, 5, 6
Instructor: Val Mosher
Location: Symmes Hall Lab 7
Cost: $115

Session: 2
Dates: June 25 - 29
Times: 1:00pm - 4:00pm
Completed Grades: 4, 5, 6
Instructor: Val Mosher
Location: Symmes Hall Lab 7
Cost: $115

Maze Bot

New!

Solve a Maze with Robots! Campers will work in teams to design, build, and program their robot to solve a changing landscape of mazes. Teams can use touch, light and/or ultrasonic sensors to help their robot "figure out" any maze and solve it. Teams will work throughout the week to improve their physical robot design as well as their programs. The week will culminate with a Maze Bot tournament. It will be A- Maze-ing!

Session: 1
Dates: June 25 - 29
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Scott O'Neal
Location: Symmes Hall Lab 8
Cost: $115

Session: 2
Dates: June 25 - 29
Times: 1:00pm - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Scott O'Neal
Location: Symmes Hall Lab 8
Cost: $115

Sumo Bot

Robots Sumo Style! Campers will work in teams to design, build, and program their "bot" using the touch, light and/or ultra-sonic sensors. Teams will challenge another robot in a "Sumo Style" wrestling match (no destruction please!). Teams will work throughout the week to re-design their Sumo bots and the week will culminate with a Sumo bot tournament.



Session: 1
Dates: July 9 - 13
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Scott O'Neal
Location: Symmes Hall Lab 8
Cost: $115

Session: 2
Dates: July 9 - 13
Times: 1:00pm - 4:00pm
Completed Grades: 5, 6, 7
Instructor: Scott O'Neal
Location: Symmes Hall Lab 8
Cost: $115

Support Roper Mountain and enjoy benefits by becoming a member!

Benefits Include:

- Admission to Second Saturdays, Starry Nights, and Butterfly Adventure (details on page 18)
- Summer Camp early notification, discounts and early registration
- Program and events discounts as noted on the website
- Admission to over 300 science centers and museums world wide. Visit the Association of Science-Technology Centers and choose Passport Program to find participating facilities

Become a member by visiting RoperMountain.org.



Butterfly Adventure

June 1 - July 13, 2018

9:00am – 3:00pm

Tuesday through Saturday



RoperMountain.org

- Surround yourself with hundreds of butterflies as you experience our Butterfly Adventure habitat
- Explore our Natural Science habitats: Rainforest, Ecology Lab, Marine Lab, and Discovery Rooms
- Step back in time with a visit to the Living History Farm
- Have fun in WildWood, our natural play area
- Visit our website for a complete schedule of special activities and programming

Summer Adventures
Planetarium Shows

GIANT DOME THEATER AND HOOPER PLANETARIUM

Our 50-foot Dome Screen = Awe-Inspiring Shows

Featuring a thrilling full-immersion image with surround sound.
Each show includes the popular Spacepark 360 Virtual Rollercoaster.

Tuesday		Wednesday		Thursday	
July 17	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut	**July 18**	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut	**July 19**	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut
July 24	10:15 - Magic Tree House 11:30 - Perfect Little Planet 1:30 - Dynamic Earth	**July 25**	10:15 - Magic Tree House 11:30 - Perfect Little Planet 1:30 - Dynamic Earth	**July 26**	10:15 - Magic Tree House 11:30 - Perfect Little Planet 1:30 - Dynamic Earth
July 31	10:15 - Perfect Little Planet 11:30 - Oasis in Space 1:30 - Tales of the Maya Skies	**August 1**	10:15 - Perfect Little Planet 11:30 - Oasis in Space 1:30 - Tales of the Maya Skies	**August 2**	10:15 - Perfect Little Planet 11:30 - Oasis in Space 1:30 - Tales of the Maya Skies
August 7	10:15 - Habitat Earth 11:30 - Little Star 1:30 - One World: One Sky	**August 8**	10:15 - Habitat Earth 11:30 - Little Star 1:30 - One World: One Sky	**August 9**	10:15 - Habitat Earth 11:30 - Little Star 1:30 - One World: One Sky

Astronaut
What does it take to become an astronaut? The exploration of space is the greatest endeavor that humankind has ever undertaken. Take part in this incredible journey!

Dynamic Earth
Explore the inner workings of the Earth's climate system as we explore the atmosphere, oceans and biosphere. Ride along swirling ocean and wind currents, dive into a monster hurricane and more as you experience our Dynamic Earth.

Habitat Earth
Enjoy stunning visualizations of both biological and human-built networks (and of how they intersect), taking show-goers on an incredible, immersive journey through the interconnectedness of life on Earth.

Little Star
Follow Little Star in his search for planets of his own to protect and warm. Along the way, he meets other stars and learns what makes each star special.

Magic Tree House Space Mission
Peek into the treehouse and follow Jack and Annie on an exciting adventure as they meet a helpful astronomer and an astronaut.

Oasis In Space
Journey with us on a startling and beautiful voyage through our universe, galaxy, and solar system in search of water and water worlds like Earth.

One World One Sky
Join Big Bird and Elmo as they explore the night sky. Together they take an imaginary trip from Sesame Street to the moon.

Perfect Little Planet
Imagine the ultimate space vacation! Discover our solar system through a set of new eyes – an animated family from another star system seeking the perfect vacation spot.

Tales of the Maya Skies
Immerse yourself into the Maya astronomy, art and culture through a custom score and visuals which inspires and educates.

Buy tickets online at RoperMountain.org

Seating is limited. Pre-purchase is recommended!

$5.00 per Adult or Child, per program
FREE for RMSC Members

Tickets are non-refundable. Buy online at RoperMountain.org.

Roper Mountain

Everyday science with extraordinary fun!

Roper Mountain exists because of a unique partnership of public ownership, corporate sponsorship, private support, and volunteers. During the school year, 400-600 students visit Roper Mountain every day for immersive "learning labs."

Public programs at the Center are **Friday Starry Nights** and the **Second Saturday** public day. In the summer, we also offer our **Butterfly Adventure** and **Summer Adventures** in the Planetarium. See pages 18 and 19 for show information. **Visit RoperMountain.org for more program information and to buy tickets.**

Our Vision

To be a pinnacle of innovative learning, an engine for community engagement, and a national leader in science education

Our Mission

To ignite the natural curiosity of all learners to explore and shape their world

Our Beliefs

- Science is for everyone.
- Science is exploring, investigating, and innovating.
- The exploration of our past, present, and future strengthens insight and provides new perspectives.
- We are stewards of natural, cultural, and historical resources.
- Positive learning experiences promote the development of an informed society.
- Hands-on experiences with real world connections make learning challenging and fun.
- All students deserve opportunities to actively participate in our programs.
- An engaged community of partners and volunteers fosters innovative learning experiences.
- Education, business, and community collaborations make us stronger and more effective.
- Continuous improvement is vital to our success.

Roper Mountain Science Center

- **Butterfly Adventure - June 1 - July 13**
  Tuesday - Saturday, 9:00am - 3:00pm
  Paid Admission Required
- **Summer Adventures in the Planetarium**
  Tuesday, Wednesday & Thursday, July 17 - August 9
  $5.00 per ticket (adult or child) per program
  Free for RMSC Members
  See page 19 for show information

Friday Starry Nights

Planetarium showtimes at 6:00pm and 7:30pm include:

- Feature Presentation
- Live Sky Talk
- Spacepark 360 Virtual Rollercoaster
- Observatory viewing available (weather permitting).

Second Saturday

Second Saturdays showcase different special events or themes during select months.

This year's topics include:

- STEMFest - February 10
- Space Day - March 10
- Blueberry Festival - July 14
- Star Wars - October 13
- Fall Harvest Festival - November 10

Event hours: 9:00am – 3:00pm on the 2nd Saturday of select months.

Roper Mountain Science Center

A 402 Roper Mountain Road
Greenville, SC 29615

P 864.355.8900 **F** 864.355.8948

RoperMountain.org

GREENVILLE COUNTY SCHOOLS
Where Enlightening Strikes!

Register Online at RoperMountain.org

Members only online registration
Monday, February 19 through Wednesday, February 21

Monday, February 19 is online registration only, beginning 7:00am No walk-in registration.

Public registration opens online
Thursday, February 22 at 8:00am

On-site (Walk-in) Registration

Online registration is preferred, but on-site (walk-in) registration is available starting February 20 and 21 for members, February 22 for non-members at Symmes Hall of Science from 10:00am – 2:15pm. If paying with cash, please bring exact amount; no change is available.

No on-site camp registrations will be processed after 2:30pm



Roper Mountain Science Center

Summer 2018

Activity-based camps that mix learning and fun!

RoperMountain.org

GREENVILLE COUNTY SCHOOLS
Where Enlightening Strikes!