

STEMFest

Explore.
Invent.
Create.



Saturday, February 9
9:00am-3:00pm



Friday Starry Nights

Shows at 6:00pm & 7:30pm
Visit RoperMountain.org for details



Summer Exploration Camps

Guide available online now
Member registration opens on February 18



Butterfly Adventure

Be amazed with an up close encounter as hundreds of butterflies surround you in our butterfly adventure habitat.
Returns June 11, 2019.



RMSC Membership

Become a member of Roper Mountain Science Center! Benefits include free admission to Second Saturdays, Starry Nights, Butterfly Adventure, and more!



HARRISON HALL OF NATURAL SCIENCE

SHUTTLE STOP ②

Discovery Room A - ACE Mentoring Learn how paper has been used in architecture and explore which shapes are the strongest.

Discovery Room B - Duke Energy Explore insulators and conductors of electricity using everyday household items and your friends to conduct electricity.

Rainforest - Live animals

Rainforest Lab

- **DRUM Percussion Studio** - Produce sounds, compose and play your own rhythms, learn about the engineering that produces instruments, and explore the techy side of music production by programming your own beats.

- **Dr. Phinnize J. Fisher Middle School**

Student developed STEAM projects including a micro-shelter, a hyper connected pinball machine and 3D printed orthotic prototypes. Operate a VEX robot too!

Ecology Lab - USC Upstate Be SustainABLE! Get hands-on with sustainable solutions to many of our planet's biggest challenges. Roll marbles to decide how to share "water" resources, make a recycled seed planter, build sustainable "cities" out of blocks, discover the surprising materials that are used to create green products, and more.

Central Lobby - See the Future at Roper Mountain See our plans for the new Environmental Science and Sustainability Center.

Marine Lab - Touch tanks and marine life exhibits

Design Lab - Synergy Mill Power Tool Drag Racing - Use creatively modified electric-corded power tools and compete in a brief, wild, semi-controlled flight down a two-lane plywood track.

Paleo Lab - ENSA Investigate forces and motion using Hot Wheels cars and tracks with the students from East North Street Academy (ENSA). Design, build, and test a variety of tracks to explore how objects move.

Mineral Lab - Greenville Water How Water Works - See how we test your drinking water and guide your own virtual tour of how water is collected, treated, and distributed.



LIVING HISTORY FARM

SHUTTLE STOP ②

Around the Farm - Simple machine scavenger hunt, blacksmithing, woodworking, and hearth cooking demonstrations. Historic hot chocolate recipe samples, while supplies last. One-room school lessons, toy and games, rug hooking, spinning, knitting, and pulley demonstrations, and Love In a Puff seed giveaway.



GIANT DOME THEATRE AND HOOPER PLANETARIUM

SHUTTLE STOP ③

Planetarium: Feature Shows

"Habitat Earth" 10:00am, 11:00am, 12:00pm, 1:00pm, 2:00pm

Daniel Observatory (weather permitting)

Observe the sun with Roper Mountain Astronomers from 10:00am - 3:00pm



SYMMES HALL OF SCIENCE

SHUTTLE STOP ③

Hipp Auditorium - EnTech 281 First Robotics Team Robot demonstrations, 10:30am, 11:00am, 11:30am, 12:00pm, 1:00pm, 1:30pm

Lab 1 - Michelin Meet Michelin engineers and build and test a bridge made of LEGOS

Lab 2 - BMW Manufacturing Explore automotive technology and automated guided vehicles (AGV) and take the Circuit Challenge with BMW

Lab 3 & 5 - EnTech 281 Robotics Teams See local First Tech Challenge (FTC) Teams EnTech 281 the GreenVillians and The Red Legion and see what they have developed for this year's competition.

Lab 4 - iImagine Upstate and 4-H Science on the Move Coding is Cool! - Coding activities for all ages

Lab 7 - General Electric You will become an engineer in the GE design center! Try your hand at designing a device to withstand the powerful forces of the Smasher! Challenges for all ages!

Lab 8 - STEAM Tech Teams Hacking the Mind Through Magic & 3D modeling using TinkerCad.

In front of Lab 8 - ScanSource High-Tech Scavenger Hunt -Use remote-camera technology to find the hidden objects around Roper Mountain!

Lab 9 - AFL Explore a world of light! Get hands on with light and how it's used in the real-world of fiber optic cables.

Lab 10 & Great Room/Upper Open Area - Fluor Engineering Challenges to make circuits, polymers, acids and bases and more. Learn what engineers do, explore 3D modeling and take the bridge design challenge.

Upper Lobby

- **Computer Source, 3D Printers Too** - See the world of 3D printing in action!
- **Greenville Drive** - Visit with Greenville Drive mascot REEDY RIP'IT! from 11:00am-2:00pm and enter to win a Greenville Drive prize pack!



WILKINS CONFERENCE CENTER

SHUTTLE STOP ③

Conference Center - Clemson Emagine Experience Virtual Reality (VR) with Clemson's Makerspace Club and see their Maker projects.



FOOD TRUCKS

SHUTTLE STOP ③

In front of Symmes Hall of Science (beginning at 11:00am):

- Chick-fil-a
- Automatic Taco
- King of Pops



RETURN TO RMSC ON MARCH 9, 2019
FOR OUR SPACE DAY SECOND SATURDAY

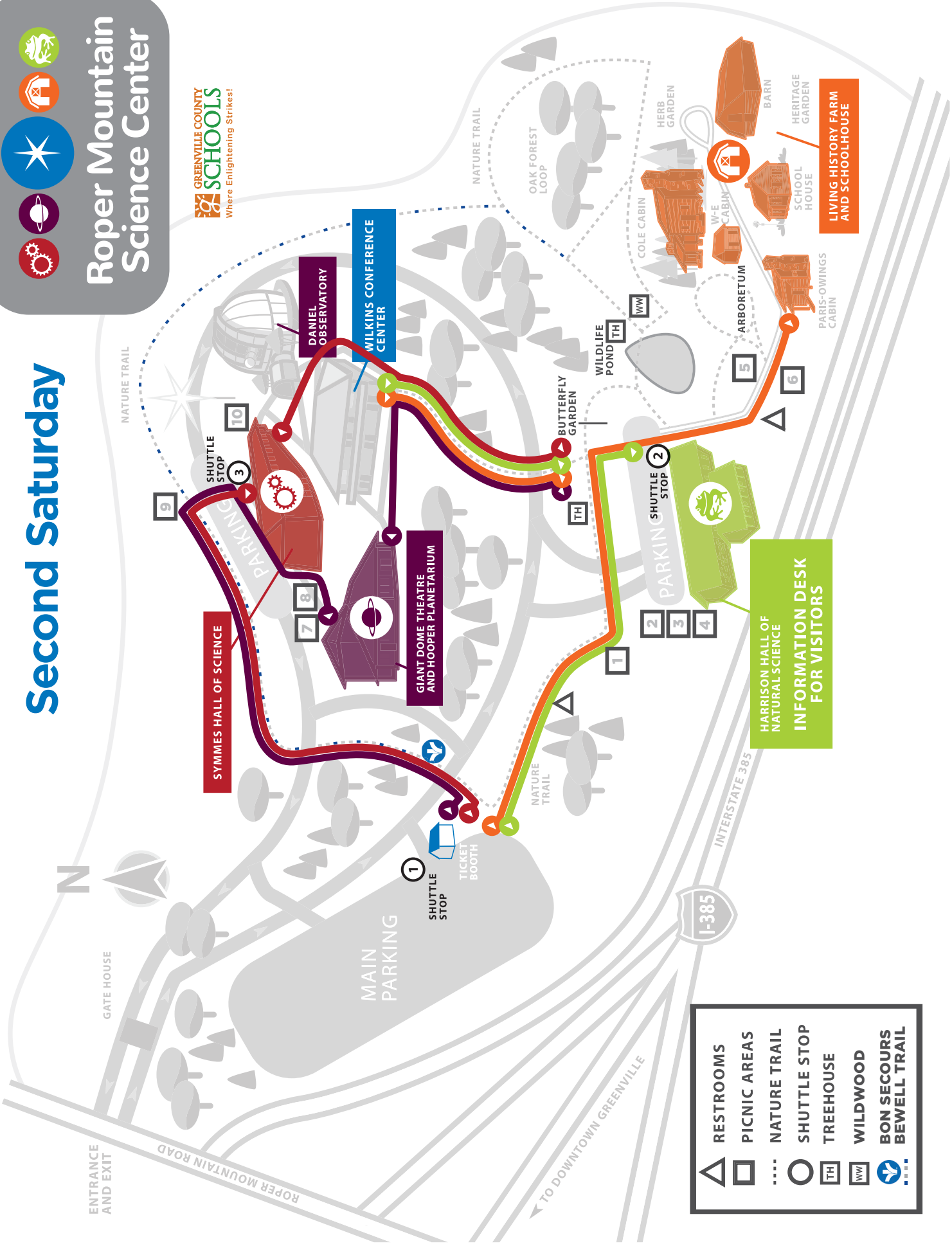
2ND
SAT

Second Saturday



Roper Mountain Science Center

GREENVILLE COUNTY SCHOOLS
Where Enlightening Strikes!



- RESTROOMS
- PICNIC AREAS
- NATURE TRAIL
- SHUTTLE STOP
- TREEHOUSE
- WILDWOOD
- BON SECOURS BEWELL TRAIL

HARRISON HALL OF NATURAL SCIENCE
INFORMATION DESK FOR VISITORS

LIVING HISTORY FARM AND SCHOOLHOUSE



ENTRANCE AND EXIT

GATE HOUSE

MAIN PARKING

SHUTTLE STOP

TICKET BOOTH

SYMMES HALL OF SCIENCE

GIANT DOME THEATRE AND HOOPER PLANETARIUM

DANIEL OBSERVATORY

WILKINS CONFERENCE CENTER

PARKING SHUTTLE STOP

PARKING SHUTTLE STOP

I-385

INTERSTATE 385

TO DOWNTOWN GREENVILLE

NATURE TRAIL

NATURE TRAIL

OAK FOREST LOOP

HERB GARDEN

COLE CABIN

W-E CABIN

ARBORETUM

WILDLIFE POND

BUTTERFLY GARDEN

PARIS-OWINGS CABIN

SCHOOL HOUSE

HERITAGE GARDEN

BARN