Welcome to the South Florida Science Center and Aquarium
Meet our Science Education Team!

Selina Clubbs, Adam Newton, Chris Ortiz, Kylie Lewis, Chris Palt, Veronica Martinez, Kristian Zambrana, Carla Duhaney, Jessica Glenn, Zary Roque

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at the South Florida Science Center and Aquarium!

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SFScienceCenter.org/birthday-parties

Homeschooler and Teacher membership discounts!
Sign up for any of our levels and receive A+ savings on your visits! Membership benefits include: unlimited annual admission to our Science Center, $25 off the first program booked, discounts on experiences, FREE admission to over 300 science centers around the world and more! For more information, please visit us on sfsciencecenter.org/membership or contact the membership office at members@sfsciencecenter.org and (561) 832-1988 x237.

TEACHER STEM OPEN HOUSE
October 18, 2019

The South Florida Science Center and Aquarium is partnering with the Palm Beach Zoo and FAU Pine Jog Environmental Education Center for an exciting STEM professional development opportunity. Visit the largest aquarium from Miami to Orlando, take a behind-the-scenes tour of the state of the art zoo animal hospital, and participate in engaging sessions as part of the Learn Green Institute.

Open House is for teachers in grades K-12 and all participants receive a complimentary lunch.

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* Only at the Science Center
Early Childhood
(PreK and Kindergarten)

**PLANETARIUM SHOWS**

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Middle School
(Grades 6-8)

Astronaut
Would you like to learn what it’s like to travel through space or to work on the International Space Station? Learn what it takes to be an astronaut as you travel into space in this digital fulldome planetarium show.

Big Ideas / NGSSS
- Big Ideas: 5- Earth in Space and Time 14- Organization and Development of Living Organisms

Dynamic Earth
Students will explore the inner workings of Earth’s climate system as they ride along on swirling ocean and wind currents, dive into the heart of a monster hurricane, come face-to-face with sharks and gigantic whales, and fly into boiling volcanoes.

Big Ideas / NGSSS
- Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns

Black Holes: The Other Side of Infinity
Viewers encounter a range of spectacular cosmic wonders, including a depiction of the beginning of the universe, the first stars, the collision of two galaxies, and a virtual trip into the center of the Milky Way galaxy, as they witness a scientifically accurate perspective on black holes.

Big Ideas / NGSSS
- Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time

Dinosaurs Alive
Journey through the Triassic and Cretaceous periods with renowned paleontologists hunting for fossilized clues, uncovering evidence that dinosaur descendants may still walk on earth.

Big Ideas / NGSSS
- Big Ideas: 1- The Practice of Science 6- Properties of Matter 9- Changes in Matter

Solar System Odyssey
Learn about all of the planets and major moons in our solar system on a futuristic space mission to explore the necessities for life.

Big Ideas / NGSSS
- Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time

Stars and Constellations
What are stars made of? Is there a cold star? Find out as our science educator takes you into the night sky in our 360° planetarium and reveals the myths behind the famous constellations.

Big Ideas / NGSSS
- Big Ideas: 2- The Characteristics of Scientific Knowledge 5- Earth in Space and Time

PLANETARIUM SHOWS

Big Ideas / NGSSS

LABS
Middle School

Brain in Action
Hold a brain in the palm of your hand to discover the structure and function of this three pound organ and its role in coordinating all five senses.

Big Ideas / NGSSS
- Big Ideas: 14- Organization and Development of Living Organisms

Chemical Concoctions
Students will have the opportunity to make their own polymers while conducting experiments that reinforce chemistry concepts of atoms, density and changes in states of matter.

Big Ideas / NGSSS
- Big Ideas: 1- The Practice of Science 6- Properties of Matter 9- Changes in Matter

Cleaning the Everglades
Presented by Harrison Fisher
This hands-on lab investigates the pollutants in South Florida waters and offers an inquiry-based approach to determining potential cleaning methods.

Big Ideas / NGSSS
- Big Ideas: 1- The Practice of Science 4- Science and Society 7- Earth Systems and Patterns

Digging Around the World
As they transform into paleontologists, students step back in time and dig for fossils to explore the wild world of Pangaea.

Big Ideas / NGSSS
- Big Ideas: 15- Development of Living Organisms

Dissections
Study anatomical structures and how these relate to body systems function in a squid, frog, spiny dogfish shark, or fetal pig.

Big Ideas / NGSSS
- Big Ideas: 15- Development of Living Organisms

DNA in Motion
Students will use cell models to explore the different parts of an animal cell, take a look at their own cells, and work as genetic scientists to isolate DNA.

Big Ideas / NGSSS
- Big Ideas: 15- Development of Living Organisms 16- Heredity and Reproduction

Engineering is Elementary
Student will gain first hand engineering practice as they use logical thinking, problem solving, and creativity to plan, build, test, and tweak a project that solves a physical engineering problem.

Big Ideas / NGSSS
- Big Ideas: 10- Forms of Energy 12- Motion of Objects

Heart in Motion Lab
Students use EKG (electrocardiogram) machines to monitor heart rate, compare active versus resting cardiograms and work with their own model heart.

Big Ideas / NGSSS
- Big Ideas: 14- Organization and Development of Living Organisms

Investigating Insects
Become an entomologist by observing insects and exploring some of the oldest living creatures on earth. Hold live insects in the palm of your hand as we discuss habitats, characteristics and the beneficial role that insects play in our environment.

Big Ideas / NGSSS
- Big Ideas: 14- Organization and Development of Living Organisms 17- Interdependence

Mining for Treasures
Students will test various minerals to determine their hardness, luster and magnetic properties, and will pan for their very own minerals in our gem mining sluice to take home with them.

Big Ideas / NGSSS
- Big Ideas: 5- Earth in Space and Time 7- Earth Systems and Patterns

Newton Olympics Lab
Our expert educator will incorporate team challenges, multimedia, and real-life examples to show that Newton’s Laws of Motion extend beyond the classroom, in this unique program.

Big Ideas / NGSSS
- Big Ideas: 5- Earth in Space and Time 10- Forms of Energy

Shark Tooth Lab
Student teams will utilize scientific observation to sort and classify genuine fossil shark teeth, examine real shark jaw specimens, learn about various shark habitats, and create their own shark tooth necklaces.

Big Ideas / NGSSS
- Big Ideas: 15- Diversity and Development of Living Organisms 16- Heredity and Reproduction 17- Interdependence

Technology Today
Learn the basics of the world of electronics and computer science using the latest advancements in modular electronics and creating real working automated machines.

Big Ideas / NGSSS
- Big Ideas: 10- Forms of Energy

3D Printing and Design
(Only at the Science Center)
Students will use new software to create designs that they can view in a 3D environment. (Not available Jun - Aug)

Big Ideas / NGSSS
- Big Ideas: 10- Forms of Energy

DEMONSTRATIONS
Middle School

Big Ideas / NGSSS

Electrifying, hands-on demonstrations which include testing the strength of an electromagnet and experiencing the static electricity from a Van der Graf Generator.

Big Ideas / NGSSS
- Big Ideas: 10- Forms of Energy

Exciting Electrons
Students will see physical changes occur before their very eyes as they learn about the states of matter in this “chilling” program about liquid nitrogen.

Big Ideas / NGSSS
- Big Ideas: 8- Properties of Matter 9- Changes in Matter

CALL TODAY! (561) 832-2026
# High School (Grades 9-12)

## PLANETARIUM SHOWS

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## PROGRAMS & LABS

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<td><strong>Cleaning the Everglades Presented by Harrison Fisher</strong></td>
<td>This hands-on water lab activity investigates the waters of South Florida and offers an inquiry-based approach to identifying pollutants in our water and how to clean them.</td>
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<td><strong>Dissections</strong></td>
<td>Study anatomical structures and how these relate to body systems’ function in a squid, frog, spiny dogfish shark, or fetal pig. Our expert educator will provide specimens, equipment and worksheets for this hands-on dissection lab.</td>
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<td><strong>The Great Shark Trek</strong></td>
<td>Using real field equipment and creative problem solving skills, students will learn how to tag and track sharks as they enter the exciting underwater world of these ancient predators and discover the reasons sharks are so important to our oceans.</td>
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<td><strong>3D Printing and Design (Only at the Science Center)</strong></td>
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Aquariums of the Atlantic
The Science Center’s 3,000 square foot Aquariums of the Atlantic takes visitors through the depths of Florida’s diverse ecosystems of Everglades, Coral Reefs, Gulf Stream, and Open Ocean, home to the most beautiful native fish such as queen angelfish, lookdowns, moray eels, stringrays and seahorses.

The Hidden World of the Everglades
Experience the Florida Everglades ecosystem and listen to the sounds of Florida’s wildlife in their natural habitat in this interactive exhibit about America’s only sub-tropical wilderness.

Florida Conservation Station
This conservation-learning laboratory includes hands-on experiments and research activities that transform visitors into real-world biologists. The station gives visitors an idea of the immense variety of life in Florida and complex relationships among living things.

Science on a Sphere
Observe atmospheric storms, climate change, and ocean temperatures on this room-sized global display system that uses computers and video projectors to display planetary data onto a six-foot diameter sphere.

Discovery Center and Playground
Children 6 years old and younger can play and discover in their very own space at the giant 16x5-foot water table, a wall-sized Lite Brite, lounge area for parents, story time area, and a dress-up area. This 2,500 square foot area now has a full playground with monkey bars, tire swings and winding slide.

Brainy Acts
Exercise your mind with puzzling challenges for all ages!

What is Nano?
Build a giant model of a carbon nanotube and explore progressively smaller magnetic materials in this interactive exhibit that engages the whole family in nanoscale science, engineering, and technology.

Hands and Minds on Science
Science enthusiasts of all ages will have fun discovering the basic principles of science with these interactive hands-on displays such as Jacob’s Ladder, plasma ball, conversion machines, brain teaser puzzles and more!

Hurricane and Tornado Simulators
See destructive forces in action as you view the swirling force of a tornado and dial up the winds of a Category 1 Hurricane. Experience the force of 78 mph winds in the hurricane simulator and learn how to protect yourself and property during and after a hurricane storm.

Out of This World
See our collection of rare space artifacts and real rocks from space featuring a Mars rock found in Nigeria in 1962, a 232 pound meteorite, and a real moon rock brought back on an Apollo mission.

Marvin Dekelboum Planetarium
Palm Beach County’s only public planetarium is a 61 seat theater including advanced full dome digital projection equipment and a brand new laser system that will transport visitors beyond the skies.

Marmot Observatory
Our newly-renovated observatory features a Meade LX600, a go-to scope, meaning that an onboard computer and GPS allows the scope to scan the skies and give the viewer the opportunity to view thousands of objects that would not normally be seen with the naked eye.

Conservation Golf Course
Enjoy our 18-hole miniature golf course focused on the Everglades and designed by Jim Fazio and Gary Nicklaus.

Fisher Family Science Trail
Enjoy the outdoors while continuing your science exploration! The upgraded, quarter-mile Fisher Family Science Trail connects 15 new exhibits including a Physics Forest, interactive splash pad, fossil dig pit, gem panning station, a dinosaur walk, picnic areas and much more.
Save the Date

Sensory Saturdays – first Saturday of each month | 8am-10am
Families with Autism Spectrum Disorder or special sensory processing needs are welcome to come and explore the Science Center, exclusively before opening to the general public for discounted admission.

STEAM-a-PALOOZA Saturdays – first Saturday of each month | 10am-5pm
A dedicated Saturday for organizations to make connections with like-minded artists, scientists, students, makers, etc... and have the opportunity to show off their goods and services aligned with STEAM initiatives in front of a family-friendly audience.

Nights at the Museum – last Friday night of each month | 6pm-9pm
Each Night at the Museum is a different theme, which includes various interactive science crafts, activities, entertainment, exhibits, planetarium shows and a chance to view the night sky in Palm Beach County's only public observatory!

Ladies Night Out – Friday, September 20, 2019 | 6-9pm
Ladies 21 and older in our community come together on this evening to celebrate women in science. Join us for a fabulous evening of sipping cocktails, shopping with a variety of vendors, presentations and science center exploration.

Fall Family Fun Fest – Saturday, November 9, 2019 | 10am-4pm
Enjoy a day-packed full of family fun that your kids won't want to miss! Activities include live entertainment, science-themed crafts, face painting, science labs and more.

MolecuBar – Thursday, November 14, 2019 | 6-10pm
A sophisticated, fun and educational event for young professionals 21+ exploring scientific principles behind their favorite cocktails. In partnership with BarWars LLC, the Science Center provides a unique, after-hours environment that encourages guests to participate in workshops, karaoke, tasting competitions, live demonstrations and exploration on a molecular level.

Superhero Sleepover – Friday, November 15, 2019 to Saturday, November 16, 2019 | 8pm-8am
Spend the evening discovering your superhero powers as you explore our interactive exhibit, Hall of Heroes. The event will include super hands-on activities, live science shows and demos, led by our educators. Dinner and breakfast will be provided.

Palm Beach Mini Maker Faire – Saturday, December 14, 2019 | 10am-4pm
Maker Faire is the Greatest Show (and Tell) on Earth—a family-friendly festival of invention, creativity and resourcefulness, and a celebration of the Maker movement.

Nerd Night – Friday, January 17, 2020 | 6-9pm
This fun evening is for adults 21 and older to Geek Out at the Science Center! Take part in trivia, test your STEM skills in competitive challenges as well as enjoy a variety of cool science shows and demonstrations. Food trucks will be on site selling delicious bites.

Full S.T.E.A.M. Ahead 5k Run/Walk – Saturday, January 11, 2020 | 7am-9am
Run, walk or skip your way through this brand new Deerfield Park 5k celebrating science, technology, engineering, art and math! Each participant will receive discounted fun at the Science Center; a t-shirt and more. All ages welcome.

Science of Chocolate – Saturday, February 22, 2020 | 10am-4pm
Learn all about chocolate! Activities include liquid nitrogen chocolate ice cream, frozen chocolate molds, chocolate samples, a never-ending chocolate fountain, and chocolate-related crafts and activities.

Daddy Daughter STEM Night – Friday, March 6, 2020 | 5:30-8:30pm
Dads, bring your daughters for an amazing night of science, technology, and exploration! Experience a luminescent laser show, maneuver robots, make liquid nitrogen ice cream, and step into virtual reality on this fun-filled evening. For girls in grades K-5 and their father-figure.

Engineer It! Competition – April 18, 2020 | 8am-4pm
Participate in the ultimate out-of-school science competition for elementary, middle & high school students, offering cash prizes for the top three winners in each of the five categories while enjoying a fun-filled family day of science. For grades K-12.

Individual and Family Programs

GEMS Club – last Tuesday of each month, 5pm-7pm
GEMS Club (Girls Excelling in Math and Science) offers the perfect opportunity for young girls to learn and grow as they discover the exciting world of math, science, engineering and technology! Presenters and activities vary and correlate with educational themes such as robotics, archaeology, engineering and coding. $7 online registration per child per session, $9 at the door.

HACK SHACK TECH CLUB – first Thursday of each month, 5pm-7pm
This club gives children the opportunity to explore science and technology in a whole new way as we experiment with different technologies, Maker-themed activities, and DIY projects. Open to 5-8th grade students $15 for members and $20 for non-members per session.

Science Homeschool Classes – throughout the school year, 11am-3:30pm
We offer homeschool classes for K-2nd grade, 3rd through 5th and middle school students on a variety of topics. Classes involve fun experiments and interactive labs designed to present a rich science experience, increase students' critical thinking skills, engage students in active discussions and enrich the school curricula.

3D Printing Workshops – last Saturday of each month, 9am-12pm
Join us for our entry-level course into the world of 3D design. During this 3 hour class, you will learn all of the skills needed to manipulate 3-dimensional objects in a 2-dimensional workspace. We will use a web-based CAD (computer-aided design) program that allows you to access your designs from anywhere. Once your design is complete we will bring it to life before your very eyes using the amazing technology of 3D printers.

Early Childhood Classes – once a month, 9:30-10:30am & 11am-12pm
Children ages 18 months to 4 years, with their parent/caregiver will be introduced to chemistry, biology, physics, and geology through play-based, hands-on activities that stimulate thought and teach cause and effect. Young children learn through play, and each class provides an experience that is both educational and memorable.

Scout Programs
Have your meeting or arrange a sleepover at the Science Center. We also offer a variety of scout programs.

CALL TODAY! (561) 832-2026
EDUCATION GUIDE 2019-2020

StemStudioJupiter.com
1209 Main Street Unit 112
Jupiter, FL 33458
10am-5pm
In Preparation For Your Visit

BEFORE CALLING THE SCIENCE CENTER TO BOOK A VISIT

☐ Verify your dates with your school administration
☐ Confirm transportation availability
☐ Determine how many students and chaperones will be visiting
☐ Choose a Science Center exploration or add an educational program

Once you have all of this, call us at (561) 832-2026 (between 9am and 4pm, Monday through Friday). If you need to leave a message, be sure to include the time and date of your request, your organization name, the number of students, and the best way to reach you. After you schedule your visit with us, you will receive a confirmation fax or email. Please sign and return the form.

ON THE DAY OF YOUR VISIT

• Please arrive 15 minutes before your scheduled time.
• Buses can drop students off at the front entrance and then park in designated spots, west of traffic loop. Vehicles may not remain parked in the traffic loop. Drivers can enter exhibit area at no charge.
• When you arrive, please know the total number of students and chaperones in your group. The group leader should check in at the front desk upon arrival.
• Your group will be greeted by Science Center staff and directed to your first activity.
• Students must be supervised by their teacher at all times.
• Due to material limitations, presentations may not be able to be added the day of the program.

LUNCHES

There are picnic tables available for groups for your lunch or snacks. If possible, we recommend leaving coolers, etc. on a sink.

Chaperone Notes

One chaperone is required per 10 students at $8 per chaperone. Chaperones must be accounted for when final headcount is submitted.

Outreach Programs

Our science educator will need a table at the front of the room. Laboratories require students to be seated at tables and access to a sink.

Payment Policy and Fees

• A 20% non-refundable deposit is due within 14 days of confirming your reservation.
• No refunds or credits will be made for no-shows the day of visit.
• Final payment must be received by the day of your visit, or reservations are subject to cancellation and your group may not be admitted. NO REFUNDS WILL BE GRANTED.
• On the day of your scheduled visit, check in for your group at the Front Desk under your group/contact name. Additional tickets may be purchased at the group rate, on the day of your scheduled visit, providing space is available.
• Acceptable forms of payment are check, money order, or credit card (Visa, MasterCard).
• Please make checks or money orders payable to South Florida Science Center and Aquarium
• Chaperones must be accounted for when final headcount is submitted.

At the Science Center

Admission per student .................................................. $8
Admission per chaperone ............................................. $6
Demonstrations and planetarium programs ...................... $4
Lab Program ............................................................. $6
Shark and Pig Dissection .............................................. $9
Conservation Golf Course (pay in the store) ...................... $3

Outreach Programs

Discovery Dome/STEAM Night Package ....................... $725
Discovery Dome/STEM Night Package ......................... $675
Fun with Science / STEM / STEM 2.0 ......................... $400
Early Childhood program (up to 25) ......................... $135
Early Childhood program (up to 25) ......................... $195
Discovery Dome/STEAM Night Package ......................... $725
Discovery Dome/STEM Night Package ......................... $675

Outreach Programs (At Your Site)

Outreach Mileage Fees (per mile) ......................... $1
Demonstrations (up to 75) ......................................... $400
Additional Demonstrations (up to 75) ....................... $250
Labs (per student, min 15) ......................................... $13
Shark or Pig Dissection (per student, min 15) .............. $16
Discovery Dome Planetarium Outreach (up to 150) ........ $450
New! Fun with STEAM programs ............................ $450
Fun with Science / STEM / STEM 2.0 ............... $400
Early Childhood program (up to 25) ......................... $250
Each additional Early Childhood class (up to 25) ....... $100
Discovery Dome/STEM Night Package ................. $675
Discovery Dome/STEM Night Package ................. $725

Program Costs

(Minimum 15 students)

AT THE SCIENCE CENTER

Science Center Visit & Program Request Form

Please fill out this form completely and mail, fax or email to:
South Florida Science Center and Aquarium
Attn: Group Sales Office - Jessica Glenn
4801 Dreher Trail North
West Palm Beach, FL 33405
Fax (561) 832-4461; or programs@sfsciencecenter.org.

Allow one to two business days for an email confirmation and please note that your reservation date is not secured until our group sales office has contacted you with a confirmation.

Teacher’s Name: ___________________________ Phone: ___________________________
Preferred Email: ___________________________
School Name: ___________________________
Fax: ___________________________
School Address: ___________________________

School Phone Number: ___________________________
Grade Level: ___________________________

Number of Teachers: ___________________________
Number of Students: ___________________________
Number of Chaperones: ___________________________

Date of Visit: ___________________________
Arrival Time: ___________________________
Alternative dates for visit: ___________________________

Activity (choose one)  ☐ Exploration at Science Center only
☐ Outreach Program at School
☐ Exploration at Science Center and Program (list programs below)

Program(s) Requested

1. ___________________________
2. ___________________________
3. ___________________________
4. ___________________________

A 20% non-refundable deposit is due within 14 days of confirming your reservation. Final headcount and full payment are due 14 days prior to your scheduled visit. NO REFUNDS WILL BE GRANTED. You must cancel at least 24 hours before your scheduled program by phone or email to avoid a $50 cancellation fee.
FUN WITH STEM

Have the South Florida Science Center and Aquarium plan a mind-blowing STEM event for your students and parents. Day or night, each program offers 20 interactive activities, experiments, and demos that are sure to amaze! Schools supply a large room (Cafeteria), 20 tables, and 20 volunteers. The Science Center brings the rest! Cost is $400 per program ($450 for Fun with STEAM programs). Mobile planetarium can also be booked with STEM programs. Please call (561) 832-2026 or email programs@sfsciencecenter.org for more information. Each event is up to 2 hours long.

FUN WITH SCIENCE
Create working 3D circuits, explore physics by launching reaction rockets, and control a robotic claw with the power of your own mind!

FUN WITH STEM
Learn to code in a fun, non-digital way, get your heart pumping as we explore this vital part of the body, and complete roller coaster challenges full of dips, curves and loops!

FUN WITH STEM 2.0
Create unique pictures using green screen magic, create DNA models, and get hands on experience with programming, electronics, and robotics!

FUN WITH STEAM
Come face to face with a bearded dragon, observe a 3D printing station, enter an immersive digital world using a virtual reality headset, and create awesome spin-art designs with a Lego Mindstorms Spin Art device.

FUN WITH STEAM 2.0
Rock the night as you perform in your very own rock band, direct and produce stop-motion videos, learn about the anatomy of plants and their cells, and explore the mesmerizing world of minerals!

Discovery Dome Astronomy Outreach

Our portable digital planetarium can travel to your school so that your students can enter a virtual world of science and astronomy. Most of the planetarium programs listed above (except ones marked with *) are available in the Discovery Dome. The Dome requires an indoor space with a clean floor, a 25 x 25 ft diameter space, a 12-ft high ceiling, as well as an electrical outlet. Suggested shows are Enchanted Reef, One World One Sky, Astronaut, Bugs! A Rainforest Adventure, and Stars and Constellations.