



STEM Teacher Open House Agenda of Activities

Tuesday, November 6, 9:00 am – 3:00 pm



Sign up for a **teacher membership** (\$10 off today!) that allows you access to the Science Center and Planetarium all year! Please see the Palm Beach Zoo’s booth in the exhibit hall to sign up for a **Zoo teacher membership**.

Schedule at a Glance

8:30 am - 9:15 am - Sign-in at South Florida Science Center (please see map).

9:15 am - 9:50 am - Keynote Speaker - Dekelbourn Science Theater - Michael Fowler, Vice President of Information Technology, Florida Power and Light (Welcome by Kate Arrizza, CEO, SFSCA). Please arrive early; seating is limited.

9:00 am - 2:00 pm - STEM Exhibition Area - South Florida Science Center - Visit our many STEM partners from the Palm Beach area.

11:45 am - 1:30 pm - Lunch - Picnic lunch by WT Cafe (Science Trail Porch). You can take your lunch to your next session, to the Science Trail, out to Dreher Park, or to the Palm Beach Zoo and Conservation Society.

3:00 pm - 5:00 pm - Explore the programs and exhibits at the South Florida Science Center and the Palm Beach Zoo on your own. Show your event wristband to gain complimentary admission to both organizations all day. Please note that complimentary admission is for teachers only.

8:30 am	<p>Sign-in at the South Florida Science Center</p> <p>Early-Bird Animal Hospital Tour (30 min) - Zoo Animal Care Complex - Erin Stimer and Kelly Miller - Get a sneak peek at this behind-the-scenes area, with visits to our treatment room, radiology, and laboratory.</p>
9:15 am	<p>Keynote Speaker - Dekelbourn Science Theater, Michael Fowler, Vice President of Information Technology, Florida Power and Light - STEM in the Business World (Welcome by Kate Arrizza, CEO, SFSCA)</p> <p>Earth Smarts (Grades K-12) - Zoo Animal Care Complex, Baum Conference Room - Dr. Bryan Nichols - Learn how to use an education-friendly framework for socio-environmental literacy, that describes the qualities we need to justly maintain or improve our quality of life in a changing world. Earth smarts provides a framework that educators, researchers, and policy makers can all benefit from.</p> <p>Planetarium Sneak Peeks (Grades K-12) - Dekelbourn Planetarium - Chris Ortiz - Check out our digital planetarium as you learn about constellations in the October night sky and our many planetarium shows the Science Center has to offer.</p> <p>Digital Platform Navigation (Grades 6-12) - Discovery 1 Learning Lab - Secondary Science Team - Looking for assistance with navigating your digital platform? Our SDPBC curriculum team is here to help! Bring your questions, and get personalized help from a team member! Please bring a fully charged device.</p> <p>Grade 6 Regular and Advanced Mathematics Standards-Based Instructional Planning - Discovery 3 - Cristina Pendas - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p> <p>Algebra 1 Standards-Based Instructional Planning - Discovery 4 - Ken Caplin - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p> <p>Launch into STEM with FIRST (Grades K-8) - Stiles Nicholson STEM Room 1 - Amy Erickson & Stacey Jones - Join Green Mouse Academy to learn how to start a FIRST LEGO League or FIRST LEGO League Jr. robotics program at your school.</p>

<p>10:00 am</p>	<p>Bringing Ocean Literacy into Your Classroom through Sea Turtles (Grades K-8) - <i>Zoo Animal Care Complex, Baum Conference Room</i> - Hannah Campbell - Loggerhead Marinelifelife Center specializes in the conservation of ocean ecosystems with a special focus on threatened and endangered sea turtles. We are excited to unroll our new Virtual Field Trip program, suited for all Palm Beach Co. classrooms, as well as share free lesson plans, resources, and opportunities for all teachers to engage students in ocean conservation while satisfying NGSSS standards.</p> <p>Grade 6 Science: Connecting Standards & Instruction - <i>Discovery 1 Learning Lab</i> - Dr. Brittany Kiser - Collaborate and learn with fellow teachers to dissect standards and design innovative instruction around Unit 4. Please bring a fully charged device.</p> <p>Zoo Labs Demonstration (Grades 6-12) - <i>Zoo Animal Care Complex, Laboratory</i> - Erin Stimer - How do we know what's making a sloth sick? Meet us in the animal hospital lab to examine the evidence, make a diagnosis, and find out how this unique program can add hands-on science to your zoo field trip.</p> <p>Robotic Demonstrations (Grades 3-12) - <i>Discovery 3</i> - Chris Pait & Kristian Zambrana - Get some hands-on experience with roving robots you can bring right into your classroom! Learn some basics in robotic programming and roll around with Spheros, Ollies, and MIPs as they race, slide and battle!</p> <p>STEM-ifying a Story (Grades K-5) - <i>Discovery 4</i> - Eva Cwynar - Are you looking for ways to incorporate more STEM into your lessons? Join us as we explore a series of lessons scaffolded for K-5 students that help students develop their critical thinking skills, recognize the importance of making good observations, and foster the ability to synthesize solutions to real-world problems.</p> <p>Elementary STEMscopes Training - Level 1 (Grades K-5) - <i>Stiles Nicholson STEM Room 1</i> - Crissy Tabachnick - This session is to train new teachers and/or teachers who are not familiar with general navigation of the STEMscopes platform and resources.</p> <p>Grade 7 Mathematics Standards-Based Instructional Planning - <i>Stiles Nicholson STEM Room 2</i> - Cristina Pendas - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p> <p>Geometry Standards-Based Instructional Planning - <i>Dekelboum Science Theater</i> - Ken Caplin - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p>
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<p>11:00 am</p>	<p>The Everglades in Your Backyard (Grades K-12) - <i>Zoo Animal Care Complex, Baum Conference Room</i> - Mary Crider - Learn about the unique animals and plants of the northern Everglades, and some of the factors that threaten their home. Take-away lesson plans will be provided. Explore ways you can visit this one of a kind ecosystem in your backyard with your class at Grassy Waters Preserve.</p> <p>Grade 7 Science: Connecting Standards & Instruction - <i>Discovery 1 Learning Lab</i> - Jessica Zunker - Collaborate and learn with fellow teachers to dissect standards and design innovative instruction around Unit 5. Please bring a fully charged device.</p> <p>Night Skies and Solar Scopes (Grades 3-12) - <i>Dekelboum Planetarium</i> - Chris Ortiz and Marc Wiskoff - Learn about constellations in the October night sky in our digital planetarium and peep through a high-powered telescope in a tour of our new state-of-the-art observatory.</p> <p>Animal Hospital Tour (Grades K-12) - <i>Zoo Animal Care Complex</i> - Erin Stimer and Kelly Miller - Get a sneak peek at this behind-the-scenes area, with visits to our treatment room, radiology, and laboratory.</p> <p>"Making" in the Standards-Based Classroom (Grades K-12) - <i>Discovery 3</i> - Eva Cwynar - Join us as we explore ways to integrate a standards-based "maker ed" approach to teaching that helps students engage in collaboration, communication, cooperation, and critical thinking.</p>
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STEMscopes- A Deeper Dive (Grades K-5 - Level 2 Training) - *Discovery 4* - Amanda Weeks - This session is for teachers who have had basic STEMscopes training. This level 2 training will elaborate on specific features within the STEMscopes platform and help teachers effectively utilize them for instruction.

Grade 7 Advanced Mathematics and Grade 8 Pre-Algebra Standards-Based Instructional Planning - *Dekelbourn Science Theater* - Cristina Pendas - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.

Algebra 1 Standards-Based Instructional Planning - *Stiles Nicholson STEM Room 1* - Ken Caplin - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.

ACE Mentor Program of Palm Beach & Martin Counties (Grades 9-12) - *Stiles Nicholson STEM Room 2* - Allen Gast - Find out how to introduce your high school students to career paths in the Architecture, Construction and Engineering industry through the ACE Mentor Program.

Code.Org Introduction (Grades K-5) - *Stiles Nicholson STEM Room 3* - Sue Baillie & Julia Mate - The Computer Science Fundamentals elementary school curriculum is designed to provide students the opportunity to explore the limitless world of computing. The courses blend online, self-guided and self-paced tutorials with “unplugged” activities that require no computer at all.

12:00 pm

How to Upcycle (Grades K-12) - *Zoo Animal Care Complex, Baum Conference Room* - Chelsea Odum - Let Resource Depot show you some clever ways to upcycle in the classroom and at home. Reuse old materials to create some amazing STEAM projects for your students.

Grade 8 Science: Connecting Standards & Instruction - *Discovery 1 Learning Lab* - Kaylin Markman - Collaborate and learn with fellow teachers to dissect standards and design innovative instruction around Unit 5. Please bring a fully charged device.

STEMscopes Integration (Grades K-5) - *Discovery 3* - Tom Medcalf - This session focuses on utilizing STEMscopes to integrate reading and writing into your classroom instruction. It will highlight literacy components of the STEMscopes resources and provide pathways to classroom implementation.

Building Up STEAM in Early Childhood (Grades Pre-K-2) - *Discovery 4* - Kat Lai - Explore the importance of creating exploration opportunities through playful STEAM experiences for young learners. Investigate methods to stimulate investigation and curiosity.

Grade 6 Regular and Advanced Mathematics Standards-Based Instructional Planning - *Stiles Nicholson STEM Room 1* - Cristina Pendas - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.

Secondary Mathematics & Science Trailblazers Roundtable (Grades 6-12) - *Stiles Nicholson STEM Room 2* - Jennifer Davis & Robin O'Brien - Roundtable session to facilitate collaborative discussions and share ideas, successes, and get help!

Code.Org Introduction (Grades K-5) - *Stiles Nicholson STEM Room 3* - Sue Baillie & Julia Mate - The Computer Science Fundamentals elementary school curriculum is designed to provide students the opportunity to explore the limitless world of computing. The courses blend online, self-guided and self-paced tutorials with “unplugged” activities that require no computer at all.

<p>1:00 pm</p>	<p>Everglades Literacy Toolkit (Grades K-12) - <i>Zoo Animal Care Complex, Baum Conference Room</i> - Lauren Butcher & Alicia Torres - Learn how to access the toolkit online for FREE, which includes three standards-aligned lessons for each grade level. Participate in an Everglades STEM lesson!</p> <p>Biology: Connecting Standards & Instruction - <i>Discovery 1 Learning Lab</i> - Jennifer Davis - Collaborate and learn with fellow teachers to dissect standards and design innovative instruction around Unit 5. Please bring a fully charged device.</p> <p>Accessing Assessments-STEMscopes (Grades K-5) - <i>Discovery 3</i> - Dr. Brittany Kiser - This session will focus on science assessment resources provided by Palm Beach County. It will also provide an opportunity for teachers to create assessments utilizing the STEMscopes platform (with presenter guidance).</p> <p>Grade 7 Mathematics Standards-Based Instructional Planning - <i>Discovery 4</i> - Ken Caplin - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p> <p>Elementary Mathematics & Science Trailblazers Roundtable (Grades K-5) - <i>Stiles Nicholson STEM Room 1</i> - Mickey Banek & Tom Salinsky - Roundtable session to facilitate collaborative discussions and share ideas, successes, and get help!</p> <p>Zoo Labs Demonstration (Grades 6-12) - <i>Zoo Animal Care Complex, Laboratory</i> - Amber Prinkey - How do we know what's making a sloth sick? Meet us in the animal hospital lab to examine the evidence, make a diagnosis, and find out how this unique program can add hands-on science to your zoo field trip.</p> <p>Planetarium Sneak Peeks (Grades K-12) - <i>Dekelboun Planetarium</i> - Adam Newton - Check out our brand new digital planetarium as you learn about constellations in the October night sky and our many planetarium shows the Science Center has to offer.</p> <p>How to be FIRST (Grades 7-12) - <i>Stiles Nicholson STEM Room 2</i> - Kate Sample and Dylan Smith - Join Green Mouse Academy to learn how to start a FIRST Tech Challenge or FIRST Robotics Competitions robotics program at your school.</p>
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<p>2:00 pm</p>	<p>EnergyWhiz (Grades 3-8) - <i>Zoo Animal Care Complex, Baum Conference Room</i> - Alicia Torres & Greg Goebel - EnergyWhiz is all about clean energy and creative kids. Learn how to get your students involved with designing, creating, building, and operating solar-powered cars and ovens through project-based learning. Get your students ready for the South Florida EnergyWhiz Expo on February 16, 2019!</p> <p>Animal Hospital Tour - <i>Zoo Animal Care Complex</i> - 30 min - Get a sneak peek at this behind-the-scenes area, with visits to our treatment room, radiology, and laboratory.</p> <p>Physical Science: Connecting Standards & Instruction - <i>Discovery 1 Learning Lab</i> - Norman Riemer - Collaborate and learn with fellow teachers to dissect standards and design innovative instruction around Unit 4. Please bring a fully charged device.</p> <p>STEMscopes-Putting it All Together (Grades K-5) - <i>Discovery 3</i> - Elementary Science Team - This session is intended for teachers who have attended STEMscope sessions throughout the day and/or have a good understanding of the STEMscopes platform. Our team is here to support your planning efforts and will guide the process - let's collaborate!!!</p> <p>Grade 7 Advanced Mathematics and Grade 8 Pre-Algebra Standards-Based Instructional Planning - <i>Discovery 4</i> - Cristina Pendas - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.</p>
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Geometry Standards-Based Instructional Planning - *Stiles Nicholson STEM Room 1* - Ken Caplin - Explore standards-based resources that engage students in collaboration, communication, and the critical thinking skills needed for content mastery.

Elementary Mathematics Discourse (Grades K-5) - *Stiles Nicholson STEM Room 2* - Mickey Banek - In this session, participants will engage in strategies for implementing effective, student centered mathematical conversations.

Makey Makey in the Classroom (Grades 3-12) - *Stiles Nicholson STEM Room 3*
- Chris Pait & Kristian Zambrana - Bring the newest technology right into the classroom by making a working piano using nothing more than a Makey Makey controller, tin foil, and playdough.

Please note that today's complimentary admission to the South Florida Science Center and the Palm Beach Zoo is for teachers only. Children are not permitted to participate in STEM Teacher Open House activities.

Teachers who complete all requirements can receive in-service points from the School District of Palm Beach County. Points must be requested through the E-Learning portal using the electronic form 2401.