SCIENCE CENTER
OF PINELLAS COUNTY
Explaining Our World

2011 - 2012
School Year
Programs

STEM Extension Programs (STEME)

Field Trips to the Science Center

Mobile Outreach Program (MOP)

The Science Center comes to you

Science Center Mission:

Foster leadership in innovative science, technology, engineering and math education with programs that promote critical thinking and the development of life and career skills.

Science Center of Pinellas County Inc.
7701 22nd Avenue North, St. Petersburg, FL 33710
Phone 727-384-0027, Fax 727-343-5729
Email: pbittaker@sciencecenterofpinellas.org
www.sciencecenterofpinellas.org

Registration for STEM Extension

Classes include hands-on experiences based on the Next Generation Sunshine State Standards. Each class introduces a number of content specific benchmarks and those representing the Nature of Science. The benchmarks listed below each description represent the primary focus of the class. Math, the language of science, is naturally integrated where appropriate. Nature of Science Benchmarks designated with an "N" may be taught any time during the school year.

STEME has been a part of the Pinellas County educational experience since 1961.

Read the lab descriptions in the proper grade level.
The corresponding 2010-11 New Generation Sunshine State Standards follow each lab description.

Select either two (2) 45 minute classes for grades K-3 OR
One (1) 1-½ hour class for grades 4 – 12

Complete the reservation form and return it to the Science Center by US Mail, **PONY #3,** fax to 727-343-5729, or email to info@sciencecenterofpinellas.org.

We are unable to accept phone reservations but feel free to call Pam with any class or scheduling questions.

The STEME reservation form is on page 18.

Please understand that while we will try to give you your first choices, we can schedule only a limited number of labs on any given day. Your understanding is appreciated. If you have any questions or need assistance, please call our office at 727-384-0027.

STEME Registration Details

1. Scheduling

- Teachers may schedule more than one STEME field trip per class during the school year. Due to early release public school transportation will not be available for field trips on Wednesdays. However, Wednesdays are available for private schools and public schools with their own transportation.

- EACH CLASS MUST BE ACCOMPANIED BY A TEACHER.

- STEME field trips begin September 1, 2011 and end May 25, 2012.

2. Lab Choices

***Kindergarten – 3rd Grade**
Two classes, 45 minutes each
***4th Grade – 12th Grade**
One class, 1-1/2 hours

3. Lab Hours

- Public Schools **using** district transportation (M,T,R,F)
  10:45 a.m. to 12:15 p.m.
  11:00 a.m. to 12:30 p.m.

- Private Schools and Public Schools **not using** district transportation
  9:00 am to 3:30 pm

If you choose to have your students eat lunch at the Science Center, your lab presentation WILL BE SHORTENED. Picnic tables will be first come first serve basis.
Total instruction time: 60 minutes Lunch Time: 30 minutes

4. Class Size
   - Pertains to all grades and all schools
   - Maximum
     60 Students for two 45 minute labs
     30 Students for one 90 minute lab
5. Fees
   - Public and Private Schools: **$4.00 per student** -
     Teachers and 3 Chaperones are free.
     Additional Chaperones $4.00 each
   - Public school bus transportation is free.
   - Must pay for a minimum of 15 students.
   - PAYMENT IS DUE AT TIME OF VISIT: Cash, Master ard, Visa, Discover or check payable to: The Science Center

6. Transportation
   - Public Schools
     Buses for public schools are available for morning sessions only and are FREE for any trips to the Science Center. In order to receive the free bus you must choose a class that aligns with the school district's curriculum timeline. (ex. You must choose at least one life science class during the months life sciences are taught in the school district.) The Science Center will arrange your school's transportation for your field trip.
   - Pinellas County school buses require 30 students per bus but not more than 65 students and adults per bus. Approximate arrival time of buses at schools will be: Up-County - 10:00 a.m. /Down & Mid-County - 10:15 a.m.

NOTE:
It is important that we make efficient use of district transportation. If you are an individual teacher and do not have a minimum of 30 students, arrangements should be made with another teacher from your school to share the bus. Sharing the bus does not mean that you have to take the same classes—choose grade appropriate classes for your students. Pleas be advised the Transportation Department requires 10 business days notice for a field trip booking.

7. Cancellation Policy
   - Please provide at least 10 days notice of cancellation, so we will have adequate time to cancel the bus.
   - If less than 10 days please find a replacement class to fill in for the same STEME class at the Science Center.

Kindergarten

SEA LIFE (45 minutes)
The marine room with our 700-gallon touch tank will be home base for this class. Students will have the opportunity to touch our marine inhabitants (spider crabs, sea stars, hermit crabs, and more) as they learn how living organisms are alike and different in the way they look and the things they do. SC.K.L.14.3

GOOD VIBRATIONS (45 minutes)
In this hands-on class, students will explore how sound is made when everyday objects vibrate. They will be introduced to the three components necessary to make sound: vibrations, a medium, and a receptor. They will extend their learning by comparing the pitch and volume of various sounds. SC.K.P.10.1

PUSH AND PULL (45 minutes)
Children will be introduced to the Law of Gravity and will have the opportunity to explore how a push or a pull can affect the movement of an object. SC.K.E.5.1, SC.K.P.13.1

YOUNG NATURALIST (45 minutes)
Students will make observations while exploring some of the Science Center's animal exhibits and outdoor spaces to learn about living organisms and how they are alike and different.
SC.K.N.1.2, SC.K.N.1.5, SC.K.L.14.3

1st Grade

LIVE IT UP (45 minutes)
Students will come face-to-face with some of the Science Center's animal residents and learn how these animals meet their basic needs. Hands-on science fun will focus on the differences between living and nonliving things. SC.1.L.14.3, SC.1.L.17.1

SEE THE SEA (45 minutes)
Students will use their senses to explore some of the wondrous marine life that live in our world and discover their different habitats. In this class, students will see, touch, smell, and hear some of the marine life found in our 700-gallon touch tank. No tasting, please!
SC.1.L.14.1

WATCH IT GROW (45 minutes)
Plants are the subject of this class. Students will learn about the basic needs of plants, their major parts, and life cycles as they explore with interactive activities. SC.1.L.14.2, SC.1.L.17.1

PHYSICS ON THE MOVE (45 minutes)
Straight line, round-and-round, and zigzag all describe some of the ways things move. Students will explore these types of movement and more as they engage in hands-on science learning. They will also learn about gravity and how it is important.
SC.1.E.5.2, SC.1.P.12.1, SC.1.P.13.1

SUN, WATER, AND CLOUDS (45 minutes)
Students will explore clouds in the sky, water on the earth, and our sun in this educational weather class taking place in our Bay News 9 Weather Room. Your first grade students will be engaged in activities identifying the beneficial and harmful properties of the sun, as well as the importance of water and how to be safe around it. Occasionally a Bay News 9 meteorologist will join us to share his/her expertise.
SC.1.E.5.4, SC.1.E.6.2

2nd Grade

OUR WONDERFUL BODIES (45 minutes)
This class is designed to give students an introduction to the human body and how it functions. Students will hear the sound of their beating heart, meet Mr. Bones, and explore the importance of our stomach, muscles, and lungs. SC.2.L.14.1

A BUG'S LIFE (45 minutes)
Insects and arachnids may seem strange and creepy, but they are part of the largest group of living organisms on our planet-the arthropods. Students will have the opportunity to see and touch some of these amazing and diverse creatures while learning about their characteristics, life cycles, behaviors, and habitats.
SC.2.L.16.1, SC.2.L.17.1, SC.2.L.17.2

HOW MATTER MATTERS (45 minutes)
Students will be introduced to the world of matter in this basic physical science class. They will investigate and compare the properties of various objects and substances during hands-on activities and demonstrations. SC.2.P.8.1

FROM THE GROUND UP (45 minutes)
What is soil? How is it formed? Why is soil important for plants? These are some questions students will be able to answer as they get an up-close view of soil and how it supports plant growth. Students will enhance their learning through activities that involve soil classification and water retention while developing an understanding of soil's role in plant life cycles. SC.2.E.6.2, SC.2.E.6.3

OUR CHANGING WEATHER (45 minutes)
What are the dangers of severe weather? Join us in our Bay News 9 Weather Room where students will explore seasonal weather patterns and how to be safe in extreme conditions while participating in fun, hands-on activities and demonstrations. Before you leave, be sure to check out the Science Center's current weather conditions using our state-of-the-art weather station. Occasionally a Bay News 9 meteorologist will join us to share his/her expertise.
SC.2.E.7.1, SC.2.E.7.3

3rd Grade

ALL ABOUT ANIMALS (45 minutes)
Explore ways to classify animals based on their physical characteristics and behaviors just like a scientist. Meet some of the Science Center's resident animals and discover their unique features. SC.3.L.15.1

PLANTS, PLANTS, AND MORE PLANTS (45 minutes)
Can you identify a plant? Learn about plant structures and their functions through scientific observation. After students review the basics, they will be introduced to ways to classify plants according to their physical characteristics. SC.3.L.14.1, SC.3.L.15.2

DEFINING A DROP (45 minutes)
Explore the wonderful world of water. Students will measure, compare, and investigate the various properties and states of water through the use of tools such as pipettes, beakers, flasks, and more. Enjoy a highly hands-on session about this everyday liquid we often take for granted.
SC.3.P.8.2, SC.3.P.9.1

WHAT'S THE MATTER? (45 minutes)
Students engage in hands-on learning while exploring the various properties of matter. They will compare and contrast some of matter's properties including shape, color, and texture. SC.3.P.8.3

ENERGY OF LIGHT (45 minutes)
Students learn about forms of energy and explore light in-depth through a variety of hands-on activities, demonstrations, and experiments. Students will investigate how light travels and have fun using mirrors and prisms in this exciting physical science class.
SC.3.P.10.3, SC.3.P.10.4

ALL ABOUT STARS (45 minutes)
Join us for a quick review of our solar system followed by some exciting star activities. Learn about the sun, supergiants, and red dwarfs. Explore star patterns and learn how to use our sun to tell time. (This class does not include a planetarium show.) SC.3.E.5.1, SC.3.E.5.2, SC.3.E.5.3

I SEE STARS! (45 minutes)
Did you ever wonder why stars twinkle? Explore supergiants and red dwarfs. Learn about our closest star and those far away. Join us for a virtual "space" adventure as we journey through the universe in our digital planetarium. SC.3.E.5.1, SC.3.E.5.2, SC.3.E.5.3

4th Grade

CONNECTING WITH NATURE (90 minutes)
In this class, students will explore our wetland area (weather permitting), while they learn about energy flow in natural environments. Food chains, food webs, and interdependence will be the topics for class activities.
SC.4.L.17.2, SC.4.L.17.3

FLORIDA'S DIVERSE ORGANISMS (90 minutes)
Discover the diversity of organisms found in Florida ranging from our wetland animals to the ocean creatures that inhabit the Gulf of Mexico. During this class students will learn about animal life cycles, behaviors, and characteristics as they meet some of the Science Center's residents.
SC.4.L.16.4, SC.4.L.17.1

FUN WITH PHYSICS AND TOYS (90 minutes)
Believe it or not, toys always function within the laws of physics. Students will explore motion, movement, speed, and force in this entertaining class where toys are the teaching tools.
SC.4.P.12.1, SC.4.P.12.2

ENERGIZE IT (90 minutes)
This is a hands-on class in which students will observe and describe some basic forms of energy and investigate what happens when energy is converted from one form to another. Students will also learn about energy conservation and explore alternative renewable vs. non-renewable sources of energy.
SC.4.P.10.1, SC.4.P.10.2, SC.4.P.10.3, SC.4.E.6.3

LARGER THAN LIFE (90 minutes)
Students will investigate how technology and tools help to extend the ability of humans to observe very large things. Using hand lenses, students will discover how lens curvature determines magnifying power and field of vision followed by an introduction to telescopes. Students will also see a planetarium show focused on the development of the telescope and its scientific importance. SC.4.E.6.5

ROCK OUT (90 minutes)
In this introduction to petrology, students will explore the three categories of rocks and work with mineral specimens including metal ores and semi-precious varieties. They will also use field identification techniques, examine fluorescent minerals under ultra-violet light, and investigate physical weathering and erosion.
SC.4.E.6.2, SC.4.E.6.4

THE NIGHT SKY (90 minutes)
The sky above is always changing, but most nights you can look up and find stars, planets, and our moon. With our digital planetarium, students will explore the current night sky and find out what to look for during the season of your visit. This class is "out of this world"!
SC.4.E.5.4

NATURE OF SCIENCE 1 (90 minutes)
What is science? How do scientists develop scientific knowledge? Students explore the answers to these questions while engaging in fun, hands -on activities. These activities will help students develop an understanding of scientific facts, the difference between an observation and an inference, the connection between data and evidence, and the importance of operational definitions when conducting scientific investigations. (This class is the same as the fifth grade Nature of Science 1 class.)
SC.4.N.1.6

WATER CONNECTIONS (90 minutes)
Where does water come from, and where does it go? How much of our planet is water? Students will be able to answer these and other water related questions after participating in activities demonstrating the abundance and distribution of water on our planet. After learning the basics, students' design and conduct investigations focused on cleaning up an oil spill. SC.4.N.1.1, SC.4.N.3.1, SC.4.E.6.3

5th Grade

MAMMALIAN BODIES (90 minutes)
A firsthand encounter with hearts, kidneys, and bones is the focus of this class. Students will have the opportunity to identify mammalian organs and describe their functions through exploratory activities. Note: This class uses preserved and unpreserved specimens. **THERE IS AN ADDITIONAL CHARGE FOR THIS CLASS. PLEASE CALL FOR PRICING.** SC.5.L.14.1

NATURE'S SECRETS (90 minutes)
In this class, plant and animal survival skills are explored. Behaviors, physical characteristics, and life cycles will be discussed. Students will engage in activities that help them understand how living organisms respond to environmental changes and how these changes affect population growth or decline. SC.5.L.14.2, SC.5.L.17.1

ENERGY TO HAVE AND TO HOLD (90 minutes)
In this class, students will trace an electrical system from the power company (provider) to the home (user) followed by an exploration focusing on electrical circuitry. They will also learn more about types of energy and how energy is converted to various forms while racing solar and battery powered cars.
SC.5.P.10.2, SC.5.P.10.4, SC.5.P.11.1, SC.5.P.11.2

NEWTON IN SPACE (90 minutes)
Believe it or not, many things can be explained by physics. Learn how Newton's Laws apply to common objects as well as satellites orbiting the Earth. Rotational inertia, center of gravity, potential and kinetic energy are just a few of the concepts covered in this "moving" class.
SC.5.P.13.1, SC.5.P.13.2

WEATHER PREDICTION (90 minutes)
Join us in our Bay News 9 Weather Room to learn about weather prediction. Types of fronts and how they cause changing temperatures and conditions will be discussed. Students will see how heat rises. They will also see the radar net screen, weather gauges on the big screen TV, and the current weather conditions at the Science Center. Occasionally a Bay News 9 meteorologist will join us to share his/her expertise.
SC.5.E.7.3, SC.5.E.7.4

WHAT'S IN A GALAXY (90 minutes)
The Milky Way is 100,000 light years in diameter and home to billions of stars. Learn more about the Milky Way and study objects in our Solar System such as the planets, moons, asteroids, and more. A planetarium show will be part of this learning experience. SC.5.E.5.1, SC.5.E.5.3

NATURE OF SCIENCE 1 (90 minutes)
What is science? How do scientists develop scientific knowledge? Students explore the answers to these questions while engaging in fun, hands-on activities. These activities will help students develop an understanding of scientific facts, the difference between an observation and an inference, the connection between data and evidence, and the importance of operational definitions when conducting scientific investigations. (This class is the same as the fourth grade Nature of Science 1 class.)
SC.5.N.1.6

NATURE OF SCIENCE 2 (90 minutes)
Do you know how to turn an "I wonder…" statement into a scientific question?" Do you know what types of questions scientists ask? Students use their foundational knowledge from the Nature of Science 1 class to learn how to develop testable questions and set up a scientific experiment. SC.5.N.1.2, SC.5.N.1.3, SC.5.N.1.4

Middle School

LIFE SCIENCE: DEVELOPMENT OF LIVING ORGANISMS
(90 minutes)
This biological science class offers a comprehensive look into the human body and homeostasis, the body's ability to regulate its inner environment. Students will use microscopes to enhance their knowledge of cells and investigate the functions of the body's major systems through models and computer-aided learning. We'll add the "eek" factor by exploring some of the infectious agents that can affect the human body.
SC.6.L.14.2, SC.6.L.14.4, SC.6.L.14.5

LIFE SCIENCE: GENETICS AND HEREDITY (90 minutes)
Students will learn about DNA, genes, and how traits are inherited. They will be introduced to Mendel's laws and investigate genotypic and phenotypic probabilities using Punnett Squares and Pedigrees. Science Center animals will be used to demonstrate some of the principles studied in this class. SC.7.L.16.1, SC.7.L.16.2

LIFE SCIENCE: MICRO-WORLD (90 minutes)
Using microscopes, students will make wet mounts to observe living organisms collected from samples of pond water. This highly hands-on program includes taxonomy and examination of various phyla. Specimens include algae and protozoa to name a few.
SC.6.L.14.2, SC.6.L.14.4, SC.6.L.15.1

PHYSICAL SCIENCE: NEWTON'S PARK (90 minutes)
Engineering and physics partner in this exciting class that would make Sir Isaac Newton proud. Students will use teamwork, mathematics, simple machines, and critical thinking skills to explore Newton's Laws.
SC.6.P.11.1, SC.6.P.13.3, SC.7.P.11.2

ASTRONOMY: EARTH IN SPACE AND TIME (90 minutes)
Students learn about moons, stars, planets, and other celestial objects found in the night sky. During this earth science class a visit to the Science Center's digital planetarium offers a grade level appropriate view into the ever expanding universe. Activities using technological materials round out this critical learning experience.
SC.7.P.10.1, SC.8.E.5.3, SC.8.E.5.5, SC.8.E.5.7, SC.8.E.5.11

ADVANCED WEATHER (90 minutes)
Students will further understand Earth's systems and patterns during this comprehensive exploration of weather. Our Bay News 9 Weather Room provides an excellent opportunity for studying weather, climate, heat transfer, and Earth's spheres. Occasionally a Bay News 9 meteorologist will join us to share his/her expertise.
SC.6.E.7.4, SC.6.E.7.5

GEOLOGY: ADVANCED PETROLOGY (90 minutes)
Study the structures and patterns of our changing planet in this Earth science class. Erosion, plate tectonics, and human made earth changes such as deforestation, urbanization, and desertification are explored through activities, experiments, and the use of technology.
SC.6.E.6.1, SC.6.E.6.2, SC.7.E.6.2, SC.7.E.6.4, SC.7.E.6.5

INTEGRATED SCIENCE: FORENSICS (90 minutes)
Students will discover the exciting world of Forensic Science. Chemistry, toxicology, chromatography, technology, and DNA identification are tools used by crime scene investigators as well as our budding scientists. Students will work together to solve a "crime".
SC.6.N.2.2, SC.7.N.1.6, SC.8.N.1.6, SC.8.P.8.8, SC.8.P.9.2

INTEGRATED SCIENCE: MARINE SCIENCE (90 minutes)
Students will come to understand that marine science integrates the following four science disciplines: biology, physics, chemistry, and geology. Through hands-on activities and demonstrations students will get a closer look at the types of investigations scientists conduct in each of these areas.
SC.6.E.7.4, SC.7.E.6.2, SC.7.P.11.4, SC.8.P.8.4, SC.8.P.9.2

High School

MAMMALIAN BRAIN DISSECTION (90 minutes)
Mammals have large, complex brains and are the only animals with a neocortex, the structure responsible for higher information processing. Students, working in groups, will understand basic brain physiology when they dissect a sheep's brain. The examination of the cranial nerves and white and gray matter will provide a wealth of knowledge and insight into how the brain functions. **THERE IS AN ADDITIONAL CHARGE FOR THIS CLASS. CALL FOR PRICING!**
SC.912.L.14.26, SC.912.L.14.27

SHARK DISSECTION (90 minutes)
Sharks have lived on the earth for 350 million years. This class offers a look inside one of our planet's oldest animals. Students will come to a greater understanding of the reproductive organs, the large oil filled liver, and the cartilaginous skeleton during this dissection. Time permitting students will have an opportunity to learn about and touch the animals in our 700 gallon touch tank. **THERE IS AN ADDITIONAL CHARGE FOR THIS CLASS. CALL FOR PRICING!**
SC.912.L.15.7

If you would like to have a class customized for your group, please let us know.

NASA DIGITAL LEARNING NETWORK

The DLN offers a live interactive visit with NASA education staff. The interactive portion of the event lasts approximately 45 minutes. We will supplement the live broadcast with additional activities to complete your 90 minute class. The grade level for each class is listed below. These events must be scheduled at least 30 days prior to the event. Most of these events require prior assessment and/or activity completion. Please call for details.

HUMANS IN SPACE-Grades K-4, 5-8, 9-12
Event Focus: You have just been selected as the next astronaut to spend six months on the International Space Station. How is your day-to-day life going to be different? What changes are you going to have to deal with living in space?
SC.K.L.14.1, SC.K.E.5.1, SC.1.L.14.1, SC.1.L.17.1, SC.2.L.14.1, SC.2.L.17.1, SC.3.E.5.4, SC.5.L.14.1, SC.6.L.14.5

OUR PLANET EARTH -Grades K-4, 5-8
Event Focus: Did you know that right now every continent on the Earth is in motion? Did you know that the direction of the winds in the Pacific Ocean off Peru affect the weather in the United States, India, and Australia? How do the air, water, and land interact to affect conditions around the entire Earth? How do we look at the whole Earth?
SC.2.E.7.1, SC.5.E.7.2, SC.5.E.7.6, SC.6.E.7.2, SC.6.E.7.3, SC.6.E.7.4, SC.6.E.7.6,

THE SOLAR SYSTEM AND BEYOND-Grades K-4, 5-8, 9-12
Event Focus: Imagine you have been selected as a modern-day Columbus who is to explore our Solar System and report on your findings. Where would you like to go and what would you look for? How would you entice others to explore the solar system with you?
SC.4.E.5.3, SC.4.E.5.4, SC.4.E.6.5, SC.5.E.5.2, SC.5.E.5.3, SC.6.E.7.9, SC.8.E.5.3, SC.8.E.5.7, SC.8.E.5.10

Science Center STEM Extension Reservation Form 2011-2012
Complete the reservation form and return it to the Science Center by US Mail, **PONY #3,** fax to 727-343-5729, or email to info@sciencecenterofpinellas.org..
Your confirmation will be returned to you by Pony.
No phone reservations will be taken. If you need assistance call 727-384-0027 x229.

_____
Teacher requesting reservation

_____
Email of Person Requesting

_____
School Name

_____
Teacher Phone Number

_____
School Address

_____ _____
City Zip

_____
Pony #

_____
Teacher #1

_____ _____
Grade # of Students

_____
Teacher #1 Email Address

_____
Teacher #2

_____ _____
Grade # of Students

_____
Teacher #2 Email Address

_____
Teacher #3

_____ _____
Grade # of Students

_____
Teacher #3 Email Address

CHOOSE DATE
1st Choice _____

2nd Choice _____
Note: If your first or second date choices are not available a date as close as possible to your request will be selected. Are there any days of the week that you do not want scheduled? _____

TIME
Private Schools only from 9:00 am to 3:30 pm _____

CHOOSE LABS

Grade _____

1st Choice _____

2nd Choice: _____

3rd Choice: _____

4th Choice: _____

Please indicate number of handicapped students:
___Wheelchair ___Visually ___ Hearing ___Emotionally ___ Mentally
___ Physically List any special programs these students are involved in: _____

Mobile Outreach Program

The Mobile Outreach Program (MOP) delivers hands-on science for elementary and middle school students at their schools, in their own classrooms. MOP is designed specifically to supplement regular classroom education with interactive programming that aligns with Next Generation Sunshine State Standards. MOP has been a part of the Pinellas County educational experience for 29 years.

REGISTERING FOR MOP

- Select a presentation in the proper grade level. The corresponding 2011-12 Next Generation Sunshine State Standards follow each description.
- Complete the reservation application and return it to the Science Center by US Mail, Pony #3, email to info@sciencecenterofpinellas.org or fax to 727-343-5729. **The reservation form for MOP is on page 21.**

We can schedule only a limited number of presentations on any given day. Your understanding is appreciated. If you have any questions or need assistance, please call our office at 727-384-0027.

MOP REGISTRATION DETAILS

1. Scheduling

- Teachers may schedule more than one MOP visit per class during the school year.
- Scheduling is on a first-come, first-serve basis.
- MOP visits begin September 1, 2011 and end May 21, 2012

WE CANNOT ACCEPT PHONE RESERVATIONS!

2. Presentation Times

Start at 9:30 a.m. Please fill out the time information on the reservation form as completely as possible. This will help the scheduler make the best arrangements for your school.

3. Presentation Length and Class Size

Grades 1-4 – One presentation, 60 minutes. Maximum of 30 students.

4. Fees

Grades 1-4 – $200/visit (one 60-minute presentation). $50 for an additional 30 minutes. **PAYMENT IS DUE AT TIME OF VISIT: Cash, MasterCard, Visa, Discover or check payable to: The Science Center.**

Class Choices

PHYSICS ON THE MOVE

Straight line, round-and-round, and zigzag all describe some of the ways things move. Students will explore these types of movement and more as they engage in hands-on science learning. They will also learn about gravity and how it is important.
SC.1.E.5.2, SC.1.P.12.1, SC.1.P.13.1

A BUG'S LIFE - Second Grade

Insects and arachnids may seem strange and creepy, but they are part of the largest group of living organisms on our planet—the arthropods. Students will have the opportunity to see and touch some of these amazing and diverse creatures while learning about their characteristics, life cycles, behaviors, and habitats.
SC.2.L.16.1, SC.2.L.17.1, SC.2.L.17.2

ENERGY OF LIGHT - Third Grade

Students learn about forms of energy and explore light in-depth through a variety of hands-on activities, demonstrations, and experiments. Students will investigate how light travels and have fun using mirrors and prisms in this exciting physical science class.
SC.3.P.10.3, SC.3.P.10.4

FUN WITH PHYSICS AND TOYS - Fourth Grade

Believe it or not, toys always function within the laws of physics. Students will explore motion, movement, speed, and force in this entertaining class where toys are the teaching tools.
SC.4.P.12.1,SC.4.P.12.2

Science Center MOP Reservation Form 2011 - 2012
Complete the reservation form and return it to the Science Center by
US Mail, **PONY #3,** fax to 727-343-5729,
or email to info@sciencecenterofpinellas.org.
No phone reservations will be taken.
f you need assistance please call 727-384-0027.

_____ Person Requesting Reservation _____ School Name _____ School Phone Number _____ School Address _____ _____ City Zip _____ Pony #	_____ Teacher #1 _____ _____ Grade # of Students _____ Teacher #1 Email Address _____ Teacher #2 _____ _____ Grade # of Students _____ Teacher #2 Email Address
CHOOSE DATE 1st Choice _____ 2nd Choice _____ 3rd Choice _____ **TIME INFORMATION** School Starts at: _____ Ends at _____ Students start to got to lunch at _____ Lunch ends at _____ Students go to PE/Art/etc at: ____ Type Classroom K-pod 1st Floor Portable 2nd Floor **Handicapped Students in this Group** ___ Wheelchair ___ Visually ___ Hearing ___ Emotionally ___ Mentally ___ Physically	**CHOOSE PRESENTAION** Please circle desired presentation 1st Grade Physics on the Move 2nd Grade A Bug's Life 3rd Grade The Energy of Light 4th Grade Fun with Physics and Toys

Winter, Spring, and Summer Camps

Our week-long classes are fun and educational, offering hands-on learning experiences for grades K-12.

Do you have students who would benefit from a fun, hands-on science program during the school breaks? We offer dozens of exciting programs for students in grades K-12 including: crime scene investigations, Lego Robotics, computer game design, engineering, and electronics.

Contact the Science Center throughout the year for a Camp brochure.

The Cyber Security Education and Certification Program:

This program is intended to provide students with the essentials of computer networking, operating systems, hardware, software, firewalls, security levels, network management, ethics, protocols, security procedures, how to harden networks, risk and exposure factors, and much more. The content will directly prepare the student to pass the following industry recognized CompTIA (Computing Technology Industry Association) certifications:

- A+
- Net+
- Security+

The next class will be offered November 7, 2011 for high school students. For more information regarding this program call Pam Bittaker at 727-384-0027 x 229.

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