### TABLE OF CONTENTS

- **Offsite Workshops** .................. 2 – 4
- **Destination STEM Workshops** ........ 5
- **Family Science Night** ................ 6
- **Live Shows** .......................... 7
- **Science Festival** .................... 8

### TABLE OF CONTENTS & PRICING

#### PRICING 2019-2020

- **Offsite Workshops:**
  - One 60-minute, hands-on lab ........ $250
  - Additional Labs* .................. $110

  *To be eligible for this pricing, workshops must be the same topic and held consecutively on the same day. Additional workshops that require additional OSC staff will be charged the $250 rate.

- **Destination STEM Workshops:**
  - 90-minute, hands-on lab .......... $300
  - Four Labs .......................... $1100

- **Family Science Night:**
  - Your Choice of Topic ............ $470

- **Enhance Your Program**
  - Add a Kaboom! show ............ $150

- **Kaboom!**
  - 30-Minute Live Show .......... $215

- **Mobile Planetarium:**
  - Two 30-Minute Presentations ...... $350
  - Additional session (up to 4) .... $100
  - 60-Minute Event Booking .......... $300
  - Each additional hour (up to 3) .... $150

- **Drones**
  - First Hour ....................... $300
  - Each Additional Hour .......... $150

---

*We bring the Science Center to you!*

Offsite programs are touring interactive hands-on STEM activities, aligned with the Florida State Standards in each subject area. An Orlando Science Center staff member leads all activities and brings age-appropriate materials and supplies.

*All offsite programs are subject to a mileage fee of $1.50 per mile, round-trip.*
**PRE-K / VPK**

**Moving Machines**
Children will investigate the six different types of simple machines that make work easier: lever, inclined plane, wheel and axle, screw, wedge, and pulley. They will also use teamwork to build a compound machine to meet a goal.

*Florida Early Learning and Development Standards for Four-Year-Olds:*

**Little Engineers: Can We Fix It? Yes We Can!**
Children will learn about Engineers and the Engineering Design Process through exploring the story ‘Anything Is Possible’ by Giulia Belloni and creating a solution to the storybook problem on their own in small teams.

*Florida Early Learning and Development Standards for Four-Year-Olds:*

**KINDERGARTEN**

**Little Engineers: Can We Fix It? Yes We Can!**
Children will learn about Engineers and the Engineering Design Process through exploring the story ‘Anything Is Possible’ by Giulia Belloni and creating a solution to the storybook problem on their own in small teams.

*SC.K.N.1.1; SC.K2.CS-CS.1.3; SC.K2.CS-CC.1.3; SC.K2.CS-CC.1.4; SC.K.PB.1; SC.K.PB.9; SC.K.PB.12.1; MAFS.K.G.1.1; MAFS.K.G.1.2; MAFS.K.G.1.3; MAFS.K.1.2; MP.1.1; MAFS.K.CC.3.6; LAFS.K.RL.1.2; LAFS.K.RI.1.1; LAFS.K.RI.1.3; LAFS.K.RI.3.7; LAFS.K.RI.4.10; LAFS.K.RF.1.1; LAFS.K.RI.2.5; LAFS.K.RL.1.3; LAFS.K.K.1.3

**Bee Robotics**
Children will be introduced to the basics of computer science and programming with our robot friend, Blue-Bot. They will explore how robots use algorithms as a series of steps to reach a goal.

*SC.K2.CS-CS.3.2; SC.K2.CS-CS.4.2; SC.K1.CS-CS.2.4; SC.K2.CS-CS.2.5; SC.K2.CS-PC.1.1; SC.K2.CS-PC.2.2; SC.K2.CS-CS.1.3; SC.K2.CS-CS.2.1; SC.K2.CS-CS.2.2; SC.K2.CS-CS.2.3; SC.K1.CS-CS.1.3; SC.K2.CS-CS.1.3; MAFS.K.RK.1.1; MAFS.K.RK.1.2; MP.1.1; LAFS.K.K.SL.1.3; LAFS.K.SL.1.1*
GRADES 1 – 2

Forces of Nature
Our planet Earth is constantly changing as a result of the many forces of nature. You will discover how the Sun affects these forces. Delve into a vicious volcano, explore erosion and engineer wind-powered objects.

---

Superworm Science
Dive into life science by investigating superworm behavior through a science experiment. Using the scientific method, collaborate to design and implement an experiment to determine which physical properties superworms prefer in their food.

---

Bee Robotics
Enter the world of computer science and programming using our robot friend Blue-Bot. Follow Blue-Bot as they explore the lives of honeybees and how they communicate with each other.

---

Mighty Magnets
How can an object be pushed or pulled using magnetism? Will the force of a magnetic field extend through non-magnetic materials? Can the strength of magnetic forces be increased and decreased? Find out in this discovery lab challenge as students explore force and motion with magnets.

GRADES 3 – 5

STEM-tastic
Shipwreck! Embark on an Engineering Design Challenge journey through engineering! Solve real-world problems by creating structures with Civil Engineering and experience Electrical Engineering by designing circuits.

---

Exploring Mars
Become aerospace engineers as you design and create satellites that will orbit the planet Mars. Analyze simulated Mars’ soil samples as astrobiologists to determine which plants could grow on the Red Planet. Let’s explore Mars together!

---

Vex Robotics: Detour Ahead
ROADS CLOSED! How do we navigate our way through a new route? Students will learn the basics of programming and apply their knowledge of maps and measurement while they explore alternate paths with a VEX Robot. Is your team up to this robot challenge?

---

Roller Coaster Physics
Demonstrate how the forces of inertia, gravity, and friction affect motion while building a roller coaster model. Trace the flow of energy as it converts from potential to kinetic along the track.
OFFSITE PROGRAMS

OFFSITE WORKSHOPS

GRADES 6 – 12

OSCSI
Become a crime scene investigator and decipher the evidence to discover the truth! Match ink samples with chromatography, identify mystery unknowns by their physical and chemical properties, learn blood-typing techniques, and create sketches of a suspect using facial composite computer software.

SC.6.N1.1; SC.6.N1.4; SC.6.N1.5; SC.7.N1.1; SC.7.N1.3; SC.7.N1.5; SC.8.N1.1; SC.8.N1.3; SC.8.N1.6; SC.8.N4.1; SC.8.P8.4; SC.8.P8.8; LAFS.6.L.3.6; LAFS.6.RI.1.1; LAFS.6.RI.2.4; LAFS.6.RI.3.7; LAFS.6.W.4.1; LAFS.6.W.3.7; LAFS.6.5L.1.1; LAFS.6.5L.1.2; LAFS.7.5L.1.6; LAFS.7.W.4.1; LAFS.7.W.3.7; LAFS.7.5L.1.1; LAFS.7.5L.1.2; LAFS.8.5L.1.6; LAFS.8.W.1.1; LAFS.8.W.3.7; LAFS.68.RST.1.3; LAFS.68.RST.2.4; LAFS.68.WHST.1.1; LAFS.68.WHST.3.9; LPSS.68.LAW.02.01; LPSS.68.LAW.02.03; LPSS.68.LAW.02.05

Rise to the Challenge: Weather Balloon Engineering
Become an aerospace engineer by experiencing the battle between gravity and buoyancy! By collecting data and calculating the opposing forces, teams create a balanced attachment that will suspend a model weather balloon in the atmosphere. Can your team rise to the challenge?

SC.6.N.1.1; SC.6.N.1.4; SC.6.P13.1; SC.6.P13.2; SC.6.P13.3; SC.7.N.1.1; SC.8.N1.1; SC.8.P8.2; SC.8.P8.4; SC.8.N1.5; SC.8.N3.1; SC.8.CS-CC.1.2; SC.912.E.7.8; SC.912.E.6.6; SC.912.P12.4; SC.912.N.1.7; SC.912.N.4.1; MAFS.7.EE.1.1; MAFS.7.EE.2.4; MAFS.912.N-Q.1.3; LACCC.6.SL.1.3; LACCC.6.SL.2.4; LACCC.8.SL.2.4; LACCC.68.RST.1.3

Lasers Engage! (Grades 6 – 8)
Design, create, and test a laser defense system to find a solution to a real-world problem. Students will work in teams to design a laser path within a budget. Science, Technology, Engineering, and Mathematics combine, changing the trajectory of students’ futures to inspire interest in these fields!

MAFS.7.G.2.5; MAFS.8.G.1.1; LAFS.68.RST.1.3; LAFS.68.RST.1.1; LAFS.68.RST.2.4; LAFS.68.RST.3.9; LAFS.68.WHST.1.2; LAFS.68.WHST.3.7; SC.6.N.1.1; SC.7.N.1.1; SC.8.N1.1; SC.8.N1.6; SC.8.N4.1; SC.7.P10.2; SC.7.P10.3
These workshops are designed to be booked either individually or as a series. Please call for availability. Limit of 30 students per workshop.

90-MINUTE WORKSHOP PRICING

| Individual workshop ................................ | $300 |
| Series of 4 workshops ................................. | $1,100 |

GRADES 6 – 8

Destination STEM
Destination STEM is a series of 90-minute hands-on workshops that introduce STEM disciplines and career paths, focusing on Engineering and Modeling/Simulation. Choose from these distinct 90-minute afterschool workshops:

**Modeling & Simulation: 3D Printing**
Explore the basics of how computer models can be turned into real, tangible objects with a 3D Printer! Discover how scientists, engineers, and even doctors are using 3D printers in their fields.

**Modeling & Simulation: Roller Coasters**
Investigate energy transformations and discover careers in modeling and simulation while designing a fun and safe roller coaster.

**Engineering: Bridges**
Use the engineering design process to build a bridge that meets size specifications and holds weight. Will your bridge hold up under pressure?

**Engineering: Egg Drop**
Scientists and engineers designed the Mars Rover to fall from the planet’s orbit safely to its surface. Can you design and build a protection device for an egg that will survive a 10ft. drop?

**Medical Simulation: Dissection**
Participate in a sheep heart dissection and substance testing on blackworms. Discuss the benefits and limitations of simulators.

**Photonics & Optics: Lasers**
Design and build a laser path that hits two designated targets, incorporates a combination of mirrors and prisms, and creates the shortest path possible.

**Robotics: Programming**
Using VEX®IQ robots, work in teams to explore the basics of programming to solve real world problems by program a robotic arm to safely dispose of bio hazardous materials.

**Engineering: Helium Balloon Anti-Race**
Explore the forces of buoyancy and gravity and complete an engineering challenge to design a counterweight that will allow the balloon to hover midway between the floor and ceiling.

**Computer Science: Drones**
Explore the forces of flight while working in teams to program a drone to perform a search and rescue in our mobile drone cage. Hone your skills as a drone pilot as you take to the skies!
Get the entire family involved during a fun, educational hands-on science program! Family Science Nights engage students, families, and teachers in the process of scientific inquiry through hands-on activity based stations. This unique program is ideal for family nights, PTA programs, fundraisers, or community events.

$470 per Family Science Night
(plus applicable mileage to event location)

This program requires 15 of your volunteers to run the event.

Includes two Science Center Educators
(For up to 300 participants)

- Materials aligned to Florida State Standards
- Set-up and break-down assistance in your cafeteria, auditorium, or other large room
- Passport worksheets to encourage student participation
- Family-take home activities available at osc.org/educators
- A raffle prize of 4 Orlando Science Center General Admission tickets to one lucky participant!
(Passports used as drawing entries)

TOPIC OPTIONS

NEW! PRE-K (AGES 3-4)
**Hands-On Science**
Invisible Ink, Energized!, Dropsondes, Be an Engineer, Ozobot City

**GRADES K – 5**

**Engineering**
Sail Cars, Skyscrapers, Roller Coaster Physics, Think for a Robot, Bernoulli’s Jets

**Gross-Out**
Squiddin’ Around, Amazing Arachnids, Scabs, Poppin’ Pustules, The Xcrement Files

**Bio-Adventures**
Heart Highways, Bad to the Bone, Plants Up Close, Colorful Chlorophyll, Mealworms

**Earth/Space**
Planets, Rockets, 3D Constellations and Martian Soil

**STEM**
- 5 Math Stations
- 5 Engineering Stations
- 5 Science Stations of your choice: Physical Science, Bio Adventures, Gross-Out, or Earth/Space

**Physical Science**
Energy Stick, Musical Bottles, Lasers, POP Rockets, and Rust

**GRADES 6 – 8**

**Engineering**
Programming with Makey Makey, Coding with Ozobots, Building Bridges, Solar Powered Rides

**Sci Fi: Science In Films**
Electrifying Lightning, Pyrotechnics, Cymatics Soundtrack, Wicked Weather
BRING ONE OF OUR LIVE SHOWS TO YOUR SCHOOL!
Prices of programs vary; please see listings for individual show costs.
(Prices do not include charge for applicable mileage to event)

KABOOM!
GRADES K – 8
A show guaranteed to be a blast! The Kaboom! show is all about the states of matter and physical and chemical change. This informative and exciting presentation shows children different states of matter and demonstrates the changes they can undergo. This show can be chosen as a single program or added as an upgrade to other programs.

- $215 – One show
- $375 – Two shows
- $475 – Three shows
- $150 – As add-on to another program

MOBILE PLANETARIUM
We will bring the Universe to your school with Orlando Science Center’s Mobile Planetarium! Our Educators will bring the portable, inflatable dome to your location and use the digital projection system to take your students and guests on an immersive tour through space and time to view stars, constellations, planets, galaxies, and more!

Class Presentation
- 30 minutes
- (minimum of 2 sessions, max of 6 sessions)
- $350 for first two sessions
- $100 for each additional session

Event Booking
- By the hour
- (minimum 1 hour, max of 4 hours)
- $300 for first hour
- $150 for each additional hour

DRONES
NEW!
Students will explore drone technology while they try to master flying these amazing machines in a drone cage! They will work together in groups and test their flight skills by flying their drones through a series of obstacles set-up in our mobile flight cage.

Class Presentation
- 30 minutes
- (minimum of 2 sessions, max of 6 sessions)
- $350 for first two sessions
- $100 for each additional session

Event Booking
- By the hour
- (minimum 1 hour, max of 4 hours)
- $300 for first hour
- $150 for each additional hour
Can’t decide which program to choose? Does it all just sound like too much fun to have to pick? Then why not bring the Orlando Science Center to your school for a Science Festival, which gives your students an entire day of everything our offsite programming offers.

By the end of the day, your students will feel more confident and excited about science.

Call us today to begin booking your Science Festival at (407)514-2112.

**Small School Package**
*(accommodates up to 700 students) - $1,500*
• 2 hands-on STEM Activities (we will run 5 sessions of each)
• 4 Mobile Planetarium presentations or 4 Drone Experiences
• 2 Kaboom! Live Shows
• 1 Family Science Night (topic selection on page 6)

**Large School Package**
*(accommodates up to 1,275 students) - $1,900*
• 3 hands-on STEM Activities (we will run 5 sessions of each)
• 5 Mobile Planetarium presentations or 5 Drone Experiences
• 2 Kaboom! Live Shows
• 1 Family Science Night (topic selection on page 6)