



Homeschool Science Experience Enrichment Days (SEED) Ages 5 – 7 and 8 – 10

What does it take to make a seed grow? The seed needs water, nutrients and light to grow. Let MOSI help your child grow with our new Homeschool SEED days!

SEED Days are monthly enrichment classes for your homeschooler that complement your homeschool curriculum through hands-on explorations of STEAM (Science, Technology, Engineering, Art and Mathematics).

- Classes are from 1 – 3 pm
- Parents may accompany child in the workshop, or take a break and enjoy MOSI.
- Pre-registration and payment are required at least one week in advance.
- Program fee: \$24 per program or \$154 for all 7 sessions*
MOSI Member: \$18 per program or \$112 for all 7 sessions*
*discount only available if you register for the entire series at once

SEED Classes for Ages 5 – 7

Rocket Mania - October 10, 2018 (Space)

Prepare for lift off as you soar into outer space and test the need for speed! Use air pressure and chemical reactions to launch various models. Visit the Saunders Planetarium to see the night sky!

Construction Craziess! - November 14, 2018 (Engineering)

Kick-start your future as an inventor by experimenting with simple machines to launch marbles down winding tracks. Take part in various build challenges! Can your building survive an earthquake?

Wonderful Weather - December 12, 2018 (Weather)

What is the weather like out there? How does a cloud form? We will immerse ourselves in the wonders of weather including a hot-air balloon launch!

Keep on Movin'! - January 9, 2019 (Physics)

Make things soar, and experiment with different ways to make things move! Experiment with ramps, magnets and gravity, in order to explore the world of Physics!

Mix it Up! – February 13, 2019 (Chemistry)

Experiment with solids, liquids and gases! Create foaming mixtures and solutions by combining common ingredients together to create something new and exciting.

Rockin' and Rollin' - March 6, 2019 (Geology)

Be a geologist for the day! Learn about the rock cycle. Discover attributes about the three types of rocks. You will “dig” this class where we will dig for fossils!

Go for the Gold! - April 10, 2019 (Games of Science)

Wrap up the year of MOSI classes with a variety of games and toys from around the world! Make and throw a boomerang, and find out if toys can be played with in space like on Earth.

Homeschool SEED Classes for Ages 8 - 10

Space Force - October 10, 2018 (Space)

You are now a space scientist that has been drafted into MOSI's secret space lab. We are counting on your knowledge to help develop next level technology. Build rockets from light weight materials that soar. Design vehicles that can land safely on rocky terrain to deliver much needed supplies to colonists on different worlds. Learn how scientists determine what kinds of materials to use when sending probes and other vehicles into space for long distance travel. Participate in a demonstration about orbit and understand what causes it. Design a low cost spacesuit that will protect astronauts from micrometeorites. In order to be successful in this class you must have "The Right Stuff."

Consider Engineering - November 14, 2018 (Engineering)

Creativity and innovation is at the heart of engineering. Learn how to use these assets while working with others to construct great projects. Create a dam that can withstand an onslaught of water from torrential flooding. Create a house from simple materials that can withstand 100mph winds. Manipulate simple polymers that your group can use to hang and hold one gallon of water. This class is full of engineering challenges. The question is: Are you ready for it?

Is it Hot Enough for You? - December 12, 2018 (Weather)

Living in Florida means warm weather, beautiful sunsets, and Hurricanes! Learn about the atmospheric conditions that can cause severe thunderstorms and tornadoes. Understand what high and low pressure actually mean and how it applies to forecasting the weather. Create a rainbow and learn about their actual shape. We don't get a lot of snow but make your own snowball and discover why it rarely snows in Florida. Experiment with earthquakes and find out what causes dangerous events like tsunamis.

Everything Matters - January 9, 2019 (Physics)

Physics is the study of motion and in this class there will be a lot of items in motion. Construct boats from aluminum foil to learn about Archimedes Principle. Create a fun coaster from pasta and marbles. Build your own catapult and knock down castle walls just like in medieval times. Use ordinary index cards that are able to hold up heavy books.

Creative Chemistry – February 13, 2019 (Chemistry)

The world of chemistry is fascinating. In this class you will experiment with many different areas of this subject. Test cross linking polymers and learn how they are used. Create a plethora of color by using simple elements and testing their interaction with other elements. You are sure to have a great time understanding chemistry in this class.

Go Outside and Play – March 6, 2019 (Environmental Science)

Have you ever heard the expression, "Recycle, Reduce, Reuse"? This class will teach you the science behind sustainable living. Experiment with MOSI's biodigesters and learn how they turn food waste into methane gas for cooking and liquid fertilizer for plants. Research and use solar panels to power up simple devices and learn why they are most useful after a natural disaster. Learn why microbes are an important tool for sustainable living.

Games of Science – April 10, 2019 (Science Olympics)

Are you smarter than a kid in kindergarten? How are your paper airplane building skills? Can you build a vehicle using a balloon, some tape and a straw? If your answer is yes to any of these questions then this class will allow you to show off your skills. The challenges that you will face will require some science and a bit of engineering in order to accomplish the event. So get ready to use your mental and physical abilities to win it all!

Homeschool Technology and Engineering SEED Days!

Ages 8 - 12

Technology and Engineering Days are a hands-on way to prepare for the future using technology to design, invent, and build in creative and imaginative ways.

- Classes are from 3 – 5 pm
- Parents may accompany child in the workshop, or take a break and enjoy MOSI.
- Pre-registration and payment are required at least one week in advance.
- Program fee: \$24 per program or \$154 for all 7 sessions*
MOSI Member: \$18 per program or \$112 for all 7 sessions*
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Roots of Robotics – October 10, 2018

From factory work to TV shows and space exploration, robots are everywhere! Use LEGO's latest EV3 robotics kits to learn about this exciting and growing field. Once you master the basics, the possibilities are endless.

Circuit Craze – November 14, 2018

Ever wonder what makes electronic stuff work? Or how exactly does flipping a switch on the wall cause a ceiling fan or lights to turn on? The answers might shock you! Join us for Circuit Craze, a class where we learn all about electricity and circuitry while working on a fun project that you get to take home!

Programming Basics – December 12, 2018

Have you ever wanted to make your own video game? Well, now you can! Dive right into programming as you create interactive characters that move around the screen and follow your commands!

3..2..1..Blast Off! – January 9, 2019

Learn about the physics behind rocket launches as you put together your very own high-flying rocket. See what makes a rocket stable in flight and discover the excitement of a rocket launch.

Lights, Camera, ACTION! – February 13, 2019

Explore cinematography from a new perspective as we analyze the movie-making process and learn about special effects. You'll get a chance to direct your own stop motion movie and try out some green screen effects..

High-tech flyers – March 6, 2019

Helicopters, Airplanes, Gliders, Drones . . . What makes them all fly? What can we learn from birds and insects? Put on your thinking cap and design an efficient flying machine. Pilot your way through a computer-simulated flight and test your creations!

Redstone 101 – April 10, 2019

Learn the tips and secrets of working with Redstone to create engineering marvels in minecraft! Build a castle that heals itself when attacked, construct secret hideout rooms, use redstone logic to make a billboard, and more!

DISCOVER THE MOSI EDUCATORS' CIRCLE



SCIENCE • TECHNOLOGY • ENGINEERING • ART • MATH

Discounted Membership for Homeschool!



THE EDUCATORS' CIRCLE MEMBERSHIP

\$75 FOR A PARTY OF 5

\$125 FAMILY PREMIUM

This includes:

- **UNLIMITED MOSI admission for one full year**
- **Plus UNLIMITED stargazing shows in The Saunders Planetarium**
- FREE ADMISSION or discounts to 20+ local attractions & 250+ science centers*
- DISCOUNTS on camps, programs, and more
- Flexible — bring different guests every time
- Exclusive members only events and exhibition previews
- **Family Premium:** Bring up to 8 total guests on each MOSI visit
- **Family Premium:** 50% off discount at Glazer Children's Museum for up to 8 guests*
- **Family Premium:** 50% off discount at 200+ children's museums for up to 6 guests*

*All prices & benefits subject to change; see mosi.org/Members for current benefits list

Must present proof of Homeschool to MOSI Guest Services



SAME ADDRESS. **NEW MOSI.**

4801 EAST FOWLER AVE • TAMPA • 813-987-6000 • **MOSI.ORG**



MOSI 2018-2019 Homeschool Programs Registration Form

(Please use a separate form for each child)

A completed registration form and payment is required at the time of registration. Program registration and payment required one week prior to program date unless otherwise indicated. **Program registration and payments made on the same day as the program are subject to an additional \$5 same day registration fee. Programs have a maximum capacity and may not be available the day of the program.**

Cancellation and Refund Policy: MOSI reserves the right to cancel classes that have not met the minimum enrollment. Students will be placed in an alternative class when possible. If MOSI cancels a class, payment will be fully refunded. A 50% credit or refund may be granted for written requests made 13 or fewer days prior to the first day of the homeschool class. No refunds will be granted on or after the first session. All refund requests must be made in writing.

MOSI offers three ways to register:

1. Drop off at MOSI Box Office 10 a.m. – 5 p.m. daily
2. Mail to: MOSI Homeschool Program 2018-2019, 4801 East Fowler Ave., Tampa, FL 33617
3. Online at www.mosi.org. Payment by credit card only.

Child's Name _____ Age _____ DOB _____

Parent/Guardian's Name _____

Address _____ City _____ State _____ ZIP _____

Day Phone () _____ Evening Phone () _____ Cell () _____

e-mail _____

Member Status:

____ I am a MOSI member.
Membership Number _____ Name on Membership _____

____ I am not a MOSI member.

____ I am joining/renewing MOSI membership at this time. (Complete the membership application at MOSI.)



MOSI 2018 – 2019 Homeschool SEED Programs Registration Form

Child's Name _____

Circle which program you would like to register for.
Fill out separate registrations forms for each child.

Science Enrichment Ages 5 – 7 \$24 Non-Member Rate \$18 Member Rate per Session	Science Enrichment Ages 8 – 10 \$24 Non-Member Rate \$18 Member Rate per Session	Technology Enrichment Ages 8 - 12 \$24 Non-Member Rate \$18 Member Rate per Session
October 10, 2018 Rocket Mania	October 10, 2018 Space Force	October 10, 2018 Roots of Robotics
November 14, 2018 Construction Craziiness	November 14, 2018 Consider Engineering	November 14, 2018 Circuit Craze
December 12, 2018 Wonderful Weather	December 12, 2018 Is it Hot Enough for You?	December 12, 2018 Programming Basics
January 9, 2019 Keep on Movin'!	January 9, 2019 Everything Matters	January 9, 2019 3...2...1... Blast Off!
February 13, 2019 Mix it Up!	February 13, 2019 Creative Chemistry	February 13, 2019 Lights, Camera, ACTION!
March 6, 2019 Rockin' and Rollin'	March 6, 2019 Go Outside and Play	March 6, 2019 High-Tech Flyers
April 10, 2019 Go for the Gold!	April 10, 2019 Games of Science	April 10, 2019 Redstone 101
All 7 sessions - \$154 Member Rate \$112	All 7 sessions - \$154 Member Rate \$112	All 7 sessions - \$154 Member Rate \$112

Payment: (Please check one below) Full payment must accompany registration form.

_____ Cash (in person only) in amount of \$ _____

_____ Check (payable to MOSI Foundation, Inc.) # _____ in amount of \$ _____

_____ Visa _____ MasterCard _____ American Express _____ Discover

Account # _____ Expiration Date _____

Name on card _____

Signature _____

Office Use Only: Registrar's Initials _____ Date of Processing _____
