

OUTREACH: MOSI IN MOTION

MOBILE SCIENCE LAB

The MOSI in Motion Mobile Science Lab brings the excitement of a field trip to you! Immerse your students in STEAM (Science, Technology, Engineering, Art, and Math) with workshops or assemblies that fit right into your daily schedule.

The MOSI in Motion Mobile Science Lab includes:

- Interactive STEAM workshops and assemblies that support your curriculum
- Multiple sessions per day of the program of your choice
- All materials for the program
- Enthusiastic educators who are Lunsford certified

General Program Requirements:

- Please allow for 15 min to reset between shows.
- Site must provide an appropriate space and chaperone for the duration of the program.
- A \$50 deposit or letter of intent is required for reservation.
- Travel fees apply for sites more than 15 miles from MOSI.
- Full payment is required at least 2 weeks prior to program date.
- When planning your start time, please be aware, instructors will arrive approximately 45 minutes prior to your first show to set up.

MOSI IN MOTION WORKSHOPS

PRE-K WORKSHOPS

Preschool Workshops include up to three 30-minute sessions for \$360/day

Motion Commotion • Ages 4-5 • 20 per session

Learn how things move in this action-packed class where junior rocket scientists explore gravity and energy. These hands-on experiments will get them moving, thinking, and engineering.

Bug Bonanza • Ages 4-5 • 20 per session

Explore the wonderful world of bugs! Learn about insects, “eat” like a beetle, and dance like a butterfly. Get an up-close look at preserved specimens to observe their amazing adaptations, and see what makes insects so unique.

The 5 Senses Lab • Ages 4-5 • 20 per session

Be a sense-sational scientist! Use your senses to mix colors, explore textures, listen to mystery sounds, and identify flavors and fragrances in this super sensational lab!



K-5 WORKSHOPS

Potions in Motion • K-5 • 30 per session

Take matter into your own hands and explore the world around you with fizzing, bubbling and colorful chemical reactions! SC.N.1, SC.P.8, SC.P.9

3-2-1 Blast Off! • K-5 • 30 per session

Engage in the race to space while defying gravity and investigating motion. Design your rocket to reach its destination, and then prepare for lift-off! SC.P.12, SC.P.13

Fossils: Clues of the Past • K-5 • 30 per session

Dig into the science of geology with this hands on fossil lab! Learn about the rock cycle, and how we can use that knowledge to uncover clues to Earth's past buried just beneath the surface. SC.N.1, SC.E.6

The Amazing You! • K-5 • 30 per session

From cells, to organs to systems, to you! How do parts of the body on all levels work together? In this fun activity based workshop, find out more about what's going on inside the amazing machine that is YOU! SC.N.1, SC.L.14

K-8 WORKSHOPS

Cryo-Cool: The States of Matter • K-8 • 30 per session

MOSI scientists use liquid nitrogen to demonstrate super cool science at subzero temperatures, with investigations into solids, liquids, and gases. Students will have the chance to take a closer look at heat transfer and what effect the flow of energy has on states of matter. SC.P.8, SC.P.9, SC.N.1

Robot Round-Up • K-8 • 30 per session

Feel the spark of innovation as you use code to make robots walk, talk, or dance! In this intro to robotics, learn what makes robots different from everyday machines. Students will code, test, and innovate their own program as they play with MOSI's robots. SC.N.1, SC.P.12, SC.P.13

Star Lab: Tales of the Night Sky • K-8 • 30 per session

Let MOSI bring the wonder of astronomy to you! Our portable planetarium recreates the night sky complete with stars and constellations. Learn to distinguish types of stars, how to navigate using the night sky, and even listen to star stories! SC.N.1, SC.E.5



MOSI IN MOTION ASSEMBLY PROGRAMS

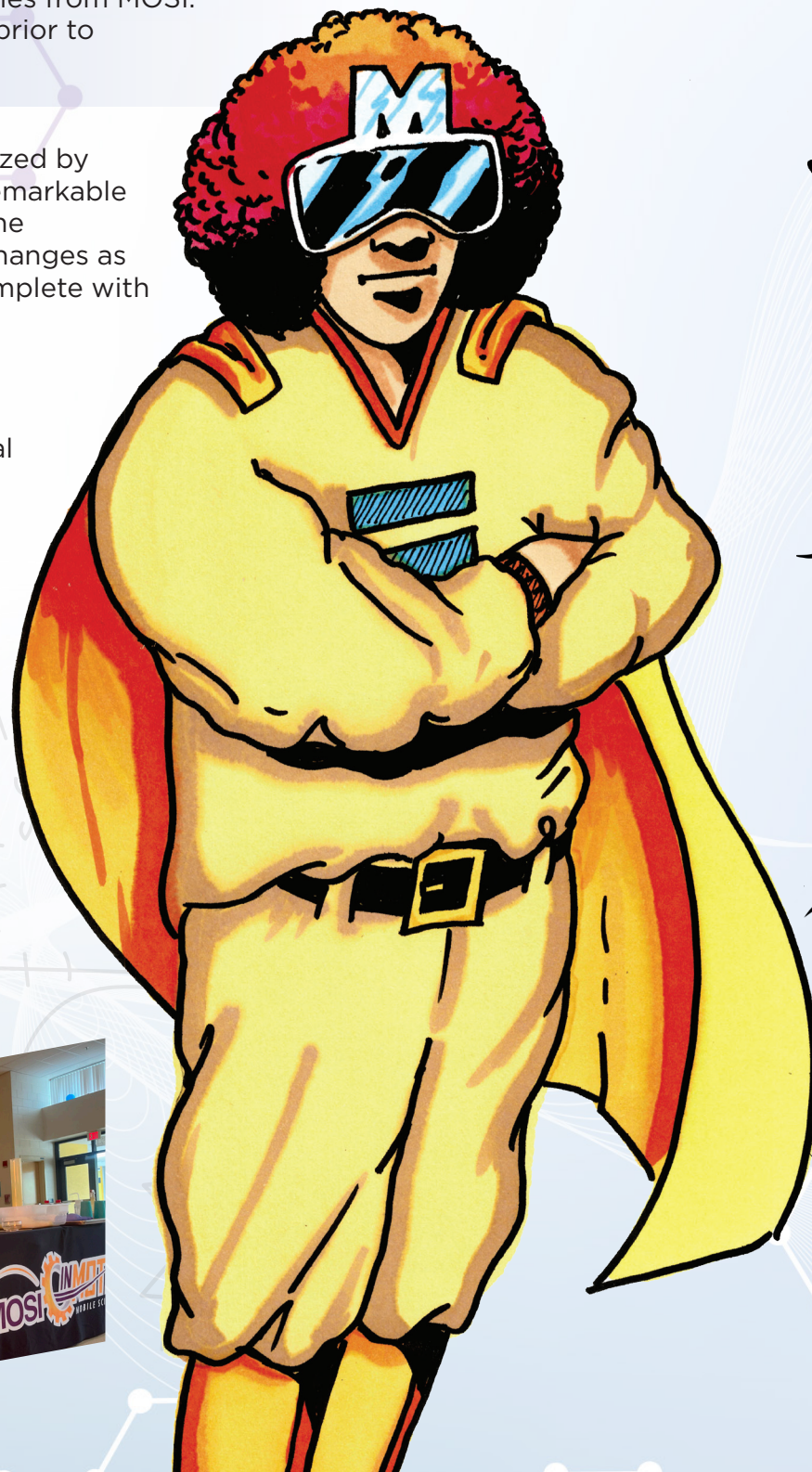
- Assembly Programs include up to two 60-minute sessions for \$750/day.
- Up to 200 students per session, additional sessions for \$100/session.
- Please allow for 15 min to reset between shows.
- Site must provide an appropriate space and chaperone for the duration of the program.
- A \$50 deposit or letter of intent is required for reservation.
- Travel fees apply for sites more than 15 miles from MOSI.
- Full payment is required at least 2 weeks prior to program date.

Chemistry: It Matters! – Grades K-8 - Be amazed by MOSI's mad scientists as they demonstrate remarkable reactions in front of your eyes! Learn about the differences between physical and chemical changes as you watch this action-packed stage show complete with color changes, catalysts, and combustion reactions. SC.P.8, SC.P.9

Science Extravaganza – Grades K-8 - Watch cryogenics experiments, spectacular electrical sparks, and rip-roaring rockets in this high-energy show. Discover the concepts of heat energy, motion, and conductivity as our educators make science larger than life! SC.P.10, SC.P.11

Weather Wonders – Grades K-8 - Lightning strikes more than once in this stormy show all about weather and climate. Students will investigate how heat, pressure, and water combine to create both daily weather patterns and extreme storms! SC.E.7

Reserve your program today at mosi.org/outreach or call (813) 987-6000!





MOSI-IN-A-BOX

A piece of MOSI – to go. MOSI-in-a-Box is packed to the brim with hands-on, minds-on STEAM activities that you facilitate when you want, where you want, and how you want. Borrow, use, and return – we take care of the rest!

MOSI-in-a-Box Includes:

- 4-6 themed activities per box.
- Fresh supply of consumable materials.
- Each box contains enough supplies for up to 150 students.
- Cleaning supplies to sanitize equipment between uses.
- Training guides and background information for facilitators.



-  **Jr. Explorers Box – Grades PreK-1** - Take a journey to space by exploring our solar system through reading, science, math, and play!
-  **Animal Adaptations Box – Grades K-8** - What's up with birds that don't fly? Why do bears hibernate? Which animal has the best eyes? Explore the wild world of animals by studying the unique adaptations that help them survive. (Sorry, live animals not included!)
-  **Roots, Leaves, and Seeds – Oh My! Box – Grades K-8** - Wander through the world of plants! Examine plant cell models, play photosynthesis games, puzzle out the anatomy of a flower, and plant your own seeds!
-  **Decoding the Dinosaurs Box – Grades 2-8** - Investigate dinosaurs by examining the clues they left behind. Includes hands-on STEAM activities that help us understand how dinosaurs look, eat, sound, move, and sense.
-  **Land, Air, and Sea Box – Grades 2-8** - Unpack our planet and discover what makes it go round. Explore Earth's natural phenomena related to our weather, oceans, and land.
-  **Mission: Space Box – Grades 2-8** - Your mission, if you choose to accept it, is to go beyond our planet and explore the farthest boundaries of our reach. Design rockets, spacecraft, and machines that will help us explore the unknown!
-  **Understanding our Universe Box – Grades 2-8** - Ready to explore the great unknown? Blast off with experiments and demos about the forces that shape our universe! Model the solar system, play space games, and even try some nebula art.
-  **Marvelous Marine Mammals Box – Grades 2-8** - Junior marine biologists will study the size, habitats, and behaviors of our largest marine mammals including whales, dolphins, and manatees. (Sorry, live animals not included!)
-  **Wild World Box – Grades 2-8** - Explore the relationship between living things and the environment by learning about habitats, ecosystems, interdependence, environmental change, and sustainability.

Pricing and Reservation Information:

- Each MOSI-in-a-Box can be borrowed for 1 week at time for \$150/week
- Pick-up and drop off must be scheduled in advance Mon-Fri
- Boxes must be returned in good working condition