

# WHAT WILL THEY DISCOVER ON A MOSI FIELD TRIP?

MOSI offers educators content-driven field trips that are fun, interactive learning opportunities for students in STEAM education. Let MOSI be an extension of your classroom to help you meet your standards in a hands-on, inquiry, engaging way! Add a program to your field trip to enrich your students' learning experiences.



## **Up, Up, and Away • K-2<sup>nd</sup> grade**

Explore the world of space travel through the eyes of an astronaut. Learn the parts of a rocket and then blast rockets up in the air. Finish your journey with a taste of astronaut ice cream.

MA.A.1, SC.E.5, SC.K.N, SC.2.N

## **Kids Chemistry • K-2<sup>nd</sup> grade**

Examine the states of matter—solids, liquids, and gases. Mix common household items to explore physical and chemical changes. Play with mysterious ooze that you create.

MA.B.1, SC.N.1, SC.N.2, SC.P.8

## **Android Inventors • K-2<sup>nd</sup> grade**

Be the problem solvers of tomorrow! Build and code a dynamic science rover that follows your command. Explore different ways scientists and engineers reach remote places using robots. Investigate how sensors work with hands-on and “minds-on” experimentation.

SC.P.31.1, SC.P.12.1, SC.P.13.4, MAFS.MD.2.3

## **Totally Ooey Goey Science • 3<sup>rd</sup>-5<sup>th</sup> grade**

Take ordinary things and make slime that will ooze through your fingers. Experiment with physical and chemical properties of matter to create colorful acid/base reactions, or reactions that heat up, cool down, or foam out of control.

SC.P.8, SC.P.9, MA.A.5, MA.B.2

## **Scene of the Crime • 3<sup>rd</sup>-5<sup>th</sup> grade**

A crime was committed and there's a mystery to solve! You and your team of detectives must analyze fingerprints, hair and other mysterious pieces of evidence in the lab to crack the case. Apply the tools and techniques of forensics to solve a simulated crime.

SC.N.1, SC.N.2, SS.B.1, MA.A.4

## **Stormy Weather • 3<sup>rd</sup>-5<sup>th</sup> grade**

Be prepared for anything with this “low pressure” class that shows how and why weather patterns change.

Learn about the tools used by meteorologists, see a cloud in a bottle, and learn about the rain cycle. Find out about lightning safety, hurricane preparedness, and see how many drops your cloud can hold before it “rains” inside a plastic cup.

SC.3.E.6.1, SC.4.E.6, SC.5.E.7.4

## **Kinetic Art • 3<sup>rd</sup> grade and up**

Experience the action of poetry in motion as students master the mechanics of movement by building a Rube Goldberg-style machine. Teams work together to build a complex machine using pulleys, cranks, gears, marbles, and other engineering contraptions. Combining fundamental forces with creative invention, students will experience the pride of building a wild, moving chain reaction.

SC.E.5.4, SC.N.1.1, SC.P.10.2, SC.P.12.2, SC.P.13.1

## **Robot Engineers • 3<sup>rd</sup> grade and up**

Take on the role of NASA engineer to build and design a Mars rover. Use imagination and problem-solving skills to guide robots across various terrains to collect samples. Discover amazing places in our solar system while exploring the field of robotics.

SC.N.1, SC.E.5, SC.P.10, SC.P.11, MA.G.5.2, SC.E.5.2, SC.N.2.1

**Reserve your field trip today  
at 813-987-6000**



## Planetarium Programs

### CSI: Tampa • 6<sup>th</sup> grade and up

Challenge your students to solve a simulated crime by performing a variety of techniques used by forensic scientists in the DEA and FBI labs. Students analyze evidence such as hair and blood samples, use chemistry to identify unknown substances to solve a simulated crime. Go behind the scenes of this fascinating application of science and technology.  
SC.N.1, SC.L.16

### Vital Signs\* • 6<sup>th</sup> grade and up

Dissect a sheep's heart, lungs and trachea to understand how they work. Learn to measure blood pressure and listen to the sounds of your heart in this exploration of respiratory and circulatory physiology.  
SC.L.14, SC.L.15, HE.C, HE.B, HE.P  
\*Additional lab fee applies

### Investigative Health • 6<sup>th</sup> grade and up

#### Program Length - 1.5 hours

Through hands-on stations, such as suturing, tools of the trade, and engineering, expose students to important health topics and examine the heart, trachea and lungs of a mammal through dissection. Investigate how the heart and lungs work together to oxygenate and circulate blood throughout the body. Learn why interpreting an EKG graph is important for good health.  
SC.L.14, SC.L.15, HE.C, HE.B, HE.P

### Starry Night • K-8<sup>th</sup> grade Capacity 48

Listen to stories and see pictures in the sky to learn all about your starry night from Mars to the Milky Way.  
SC.N.1, SC.E.5

### Planets • 3<sup>rd</sup> grade and up Capacity 48

Take a tour and discover fascinating facts about each planet and their moons. Find out why Pluto was demoted and view the planets through the lenses and sensors of satellites and the Hubble Space Telescope. Learn to identify planets in your own night sky.  
SC.N.1, SC.E.5

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Program Rates	Price per student	Chaperones	Capacity
MOSI Exhibits Only	\$4	Free	30
Education program & MOSI exhibits	\$8	Free	30
Sky Trail® Ropes Course (1 hour) & MOSI exhibits	\$9	\$9	30
Vital Signs (with lab fee) & MOSI exhibits	\$12	Free	30
Investigative Health & MOSI exhibits	\$18	Free	30

\*All programs have a capacity of 30 students and are 45 minutes in length unless noted