



field trip BASICS

Guided Field Trips

- Led by MSC Education staff & MSU Education Pre-Service teachers
- 90 minutes long (includes free time in the Science Center)

PRICING

- Full Class (18-24 students): \$250
- Half Class (11-17 students): \$150
- Small Group (0 - 10 students): \$75

Self-Guided Field Trips

- Greeting & intro by MSC Staff
- 90 minutes long
- Large classes split into groups & rotated through specific areas
- Worksheet available

PRICING

- \$7/student for groups of 8 or more
- \$9/student for groups of 8 or less

Booking Field Trips

Email: info@montanasciencecenter.org
Call: 406-522-9087

Whenever possible, field trips are scheduled on Wednesdays (we are closed to the public). Chaperones are welcome at no additional charge.

FUNDING ASSISTANCE:

Field Trip fees are covered by grant funding, by request.



SCIENCE on-the-go!



Outreach Field Trips to Rural Communities

Can't make it to the Science Center? Our STEAMmachine mobile science truck and staff are available on a limited basis to come to your school when the funding isn't available for you to join us here! Choose a field trip lesson plan and our MSC Education Team will travel to your rural classroom with activities, supplies and volunteers.

PRICING

- \$250 per trip (includes up to 3 classrooms)
- \$75 gas fee when outside 90 mile radius

Booking Rural Field Trips

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Call: 406-522-9087

FUNDING ASSISTANCE:

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FIELD TRIPS SUPPORTED BY:

Dennis & Phyllis Washington Foundation
Enbridge
Marisa Bueno & Robert Keith
Montana Photonics Industry Alliance

2021
2022

montana
Science
Center
field trips



montanasciencecenter.org

GRADES K-3 guided field trips

Funky Physics

Get ready to move to the motion of Newton's First Law! Communication and collaboration are key in this exciting engineering lesson about the natural forces we encounter each and every day.

Dangerous Nature

We investigate the body structure and classification of one very specific type of venomous reptile: the rattlesnake. With up-close observations of rattlesnake sheds, rattles, and skulls, we learn how these fascinating creatures survive in our beautiful state of Montana.

Earth in Layers

The rocks on our planet are constantly changing! We explore the 3 different types of rocks: igneous, metamorphic, and sedimentary up-close and end our exploration with a hands-on activity that demonstrates the rock cycle.

Am I A Scientist?

Learn about three different types of careers in STEM: astrophysics, electrical engineering, and entomology through a hands-on project: a solar-powered insect model that will actually move using the energy of the sun! We specifically feature women in STEM careers to promote equity and inclusion and to serve as role models for the next generation of learners.

GRADES 4-8 guided field trips

Diffraction

Explore the scientific phenomena of light diffraction in our most popular field trip lesson! Students will learn about different types of light through hands-on, interactive activities. Students will individually build a take-home model of a spectroscope, which they will use to view various light spectra; additionally, they will be introduced to MSC's high-tech STEAMlab and learn how to design in 3D using the CAD software **Tinkercad**.

Catapults

Explore engineering and physics using rubber bands, popsicle sticks, and energy. Using hands-on, interactive activities, students will examine the potential and kinetic energy within rubber bands, as well as the design and structure support needed to build a working catapult (which students may take home with them). Additionally, students will be introduced to MSC's high-tech STEAMlab, its 3D printers, and they'll have a chance to design their own object in 3D using the CAD software **Tinkercad**.

Electricity

Explore basic circuitry and the movement of electricity. Students will experiment with electricity using our tangible electric blocks. After a basic lesson in electricity, students could also learn how to safely solder a take-home LED flashlight.* Alternatively, various other applications of circuit building projects may be available for students.

***Additional kit materials cost \$5/student.**

GRADES 9-12 guided field trips

Designed to introduce students to STEM industry careers that are innovative, interesting and don't necessarily require a 4-year degree, our **Careers** field trips include a presentation by industry experts, a high-tech, skills-based activity and a standards-aligned lesson.

Careers in Photonics

Bozeman is home to over 30 Photonics companies that create crystals, develop LiDar, use infrared imaging and more. Montana Photonics Industry Alliance volunteers will teach students about careers in Photonics with Gallatin College. Students will solder a circuit board flashlight and test out lasers.

Careers in Engineering

Learn about the many types of engineers that solve real-world problems from stream management to constructing buildings to creating light-up billboards. Hear from the MSU Engineering department and take on a critical thinking challenge to discover what engineering is all about.

Careers in Aviation

Flying a jet is just a part of the incredible experience a career in aeronautics has to offer. Gallatin College program directors will take students through a journey in aeronautics and aviation to help them discover careers in flight engineering.