HANDS-ON STEM WORKSHOPS



Your students can explore more STEM topics by adding a hands-on workshop to your field trip! Reinforce a subject from class or choose something new for them to explore!

CHOOSE YOUR TOPICS We have a wide variety of customizable workshops in topics like engineering, chemistry, robotics, and more. Look for these color-coded icons to help you choose



a topic for your class!



Robotics











Workshops are suitable for any grade K - 8. Activities for each workshop may vary depending on grade level and the length of the program. The maximum class size is approximately 25 students unless otherwise noted.

Continue to the next page for descriptions of each program!



, If you can't bring your group to the Science Factory, let us bring our hands-on STEM programs to your classroom or library! Ask us how!

Wind Power

Students will use an assortment of tools and materials to create a sailcar that harnesses the power of the wind. Activities based on grade level may include testing and changing their design, speed competitions, or races.

Structural Engineering

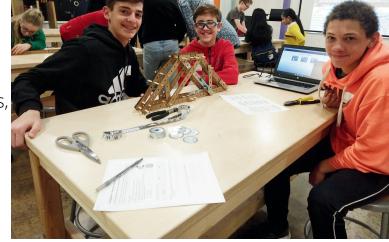


Students will be presented with a design challenge where they must think like an engineer to solve it. Challenges based on grade level may include keva plank blueprints, catapults, bridges, towers, or balancing nails.

Electric Motors



Students will explore the properties of electromagnetism and energy flow while building circuits that can power electric motors and generators.



Circuit Lab



Students will learn about electricity and how energy flows while building and experimenting with a variety of circuits from simple to complex. Activities based on grade level may include circuit boards, snap circuits, or paper circuits.

Robotics



Students will learn the basics of robotics and programming while interacting with Edison Robots. Robotics programs can be tiered for any grade level.

Newton's Laws of Motion



Students will learn about Newton's Laws of Motion and use them to perform dazzling feats! Activities based on grade level may include the tablecloth trick, remove the platform, egg drop devices, balloon races, and many more.

Biome in a Box





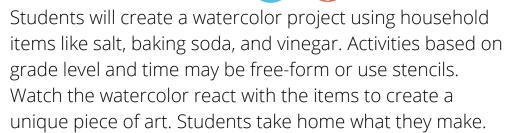
Students will learn about the different environments and habitats in which animals live. They will build an environment including terrain, plants, and animals in a box to take home.

Kitchen Chemistry



Students will explore the concepts of surface tension and displacement by completing experiments using common household ingredients like dish soap and pepper. Experiments will vary based on grade level or workshop length.

Create Art with Science





Our Solar System



Students will learn the order and characteristics of the planets in our solar system as they design and create a model individually or in small groups. Activities will vary based on allotted time and grade level.

Create a Constellation





Students will choose a constellation and use skills like measurement, cutting, and design to recreate it on paper.

FIELD TRIP PROGRAM PRICES

Options that fit your schedule:

25 minutes - \$75.00 45 minutes - \$135.00

60 minutes - \$175.00

Let us work with you to meet your student's needs. Longer and more customized workshops are available by request!



For more information and to book your field trip visit www.LancasterScienceFactory.org/fieldtrips