

Enrichment Experiences

Enrichment Experiences are small group, classroom-style programs designed to enhance our field trips by offering in-depth content and more hands-on examples of learning by doing. Advance reservation is required. Programs available on the half hour from 10:30am to 1:30pm.

*In-depth
focused
learning*

Circuit Solutions
Grades: 3-5, 6-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Assemble a working simple circuit
- Test insulators and conductors to learn about the transfer of energy (grades 3-5)
- Experiment with polarity and create a parallel circuit to study the strength of electric forces (grades 6-8)

DNA Discovery
Grades: 4-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Observe and analyze their personal genetic traits
- Translate genetic code into traits to make a unique creature
- Extract plant DNA to see what it looks like up close and in person

Engineered by Design
Grades: 3-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Explore the engineering design process (imagine, plan, create, test, improve)
- Use this process to produce a solution for a given task

Radical Reactions
Grades: 1-2
Capacity: 30 students
Length: 45 minutes
Students will:

- Use real science tools to run experiments
- Learn the science behind various chemical reactions
- Explore simple chemistry

SciLab Enrichment Experience
Grades: 3-12
Capacity: 30 students
Length: 45 minutes
Students will:

- Work in groups of six scientists and rotate through self-guided experiment stations
- Follow lab procedures and protocols while observing chemical and biological phenomena
- Gain knowledge and experience using real laboratory equipment

Sensory Mystery
Grades: PreK4-1
Capacity: 30 students
Length: 45 minutes
Students will:

- Use senses to solve a mystery
- Discover how the brain is connected to other parts of the body by nerves
- Experiment to see how eyes, ears, skin, and noses function

Soap Bubble Math
Grades: 2-3
Capacity: 30 students
Length: 45 minutes
Students will:

- Answer a real world problem using math
- Gather and share data through group participation
- Design a question and procedure, guided by standards, to determine measurable information about soap bubbles

Stats Lab
Grades: 6-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Collect and analyze statistical data generated by toys and games
- Calculate frequencies and probabilities
- Compare predicted and observed outcomes

Sudsy Science
Grades: PreK-1
Capacity: 30 students
Length: 45 minutes
Students will:

- Experiment with various bubble wands and predict bubble shapes
- Combine materials to make a better bubble solution

Synthetic Biology
Grades: 9-12
Capacity: 30 students
Length: 45 minutes
Students will:

- Survey ways that humans alter DNA to benefit themselves
- Explore the intersection of technology and society
- Discuss ethical issues related to engineered organisms

What is That?
Grades: 4-8, 9-12
Capacity: 30 students
Length: 45 minutes
Students will:

- Use the scientific process to investigate mystery boxes
- Make hypotheses based on sensory perceptions and memories
- Defend their hypothesis using empirical evidence

Wind and Waves
Grades: 2-5, 6-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Determine what energy sources are derived from renewable and non-renewable resources and how their use affects the environment
- Create a model of an offshore wind and wave energy farm to maximize energy output then optimize your solution to tackle multiple challenges
- Create an efficient, cost effective design within a defined set of parameters (grades 6-8)

Ziplock Chemistry
Grades: 3-8
Capacity: 30 students
Length: 45 minutes
Students will:

- Conduct chemical reaction experiments
- Uncover how matter and energy are transformed
- Determine which chemicals are responsible for an exothermic reaction

