

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 registration is required. Programs available on the half hour from 10:30am to 1:30pm. See pricing info on page 4.

Circuit Solutions

Grades: 3 - 5, 6 - 8
Capacity: 30 students
Length: 45 minutes
NGSS: 4-PS3-2, 3, 4; 4-ESS3-1; MS-PS2-2
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
NGSS: MS-LS1-1, 2; MS-LS3-1, 2
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
NGSS: 3-5-ETS1-1, 2, 3; MS-ETS1-1, 3, 4
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
NGSS: 2-PS1-1, 2, 4
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
NGSS: 5-PS1-3, 4; MS-PS1-1, 2; MS-LS1-2; HS-LS1-1
Students will:
• Gain knowledge and experience using laboratory equipment
• Follow lab procedures and protocols while observing chemical and biological phenomena
• Work in groups of six scientists and rotate through self-guided experiment stations

Soap Bubble Math

Grades: 2 - 3
Capacity: 30 students
Length: 45 minutes
NGSS: 1-PS4-1, 2; 3-5-ETS1-1, 2
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

Sudsy Science

Grades: K - 1
Capacity: 30 students
Length: 45 minutes
NGSS: K-2-ETS1-1
Students will:
• Experiment with various bubble wands and predict bubble shapes
• Combine materials to make a better bubble solution
• Use the scientific process to run experiments to prove or disprove predictions

Synthetic Biology

Grades: 9 - 12
Capacity: 30 students
Length: 45 minutes
NGSS: HS-LS1-1; HS-LS3-1
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

Storybook Builders

(New this year!)
Grades: PreK3 - 1
Capacity: 30 students
Length: 45 minutes
NGSS: K-2-ETS1-1, 2, 3
Students will:
• Participate in engineering activities inspired by classic fairy tale stories
• Act as the heroes of the story to overcome problems by engineering solutions
• Approach problem-solving using the engineering design process

What are the Odds?

(New this year!)
Grades: 6 - 8, 9 - 12
Capacity: 30 students
Length: 45 minutes
Students will:
• Collect data to answer statistical questions generated by toys and games
• Compare probabilities from a model to observed frequencies
• Describe data distribution and make decisions based on calculated probability

What is That?

Grades: 6 - 12
Capacity: 30 students
Length: 45 minutes
NGSS: 3-5-ETS1-1, 2, 3; MS-ETS1-1, 2, 3, 4
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
NGSS: 4-PS3-2, 3; 4-ESS3-1; 3-5-ETS1-1, 2, 3; MS-PS3-2, 3, 5; MS-ETS1-1, 2
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 (grade 6 - 8)

Ziplock Chemistry

Grades: 3 - 8
Capacity: 30 students
Length: 45 minutes
NGSS: 5-PS1-1, 4; MS-PS1-3, 4
Students will:
• Conduct chemical reaction experiments
• Uncover how matter and energy are transformed
• Determine which chemicals are responsible for an exothermic reaction

