

School Field Trip Program Descriptions



The Discovery's seven fun, interactive galleries allow kids to explore everything from art, to science, to Nevada's history and are aligned with state and Common Core standards. In addition, The Discovery has transportation scholarships available for WCSD public school teachers.

Sensational Senses (Pre-K and Kindergarten)

Scientists use their senses every day to make important observations. In this class, children will learn how to use their senses to discover the world in which they live. Smell, touch, see and listen to a variety of materials created just for you; after this class students will use their newly honed observation skills to explore The Discovery's galleries.

Magnetic Madness (Grades K-2)

School groups will naturally be attracted to the variety of magnetism inquiry stations in this class! At each station they will explore, manipulate, make observations and record their thoughts. By the end of this class, students will be able to make predictions about an object's magnetic properties.



Defying Gravity (Grades 3-4)

Students will work collectively to design a device that defies gravity. This engaging activity will boost student's creativity and problem solving skills as they explore principles of magnetism and engineering. This is a great class to help students think outside the box.

Mousetrap Racers (Grades 5-6)

In this exciting class students will be introduced to Newton's laws of motion by building and racing a mousetrap racecar. Students will learn about potential and kinetic energy while working collaboratively to design a record-breaking vehicle. Your students will have so much fun they won't realize they are learning!

Spark!Lab Special (Grades K-12)

This class is a time for your students to explore the exhibits created at the Spark!Lab in the Smithsonian in Washington, D.C., right here in Reno, Nevada. Through our partnership, students can learn about the process of invention and have an opportunity to challenge their minds with our open-ended invention challenges.

For more information about field trips to The Discovery, or to make a reservation, visit www.nvdm.org.

School Field Trip Program Standards



Sensational Senses (Pre-K and Kindergarten)

Nevada pre-K standards

- Content standards 6.0 Use their five senses to explore and investigate the natural world
- Content standard 21.0 observe the world and ask questions about their observation
- Content standard 22.0 Begin to share their ideas with others

Working toward

- Science N.2.A.1 Students know how to make observations and give descriptions using words, numbers, and drawings. Students know humans and other animals use their senses to know their world. E/S
- CC math K.CC.4 Understand the relationship between numbers and quantities; connect counting to cardinality.
- CC Language Arts 1.K.4 I/L Comprehend vocabulary using pictures, symbols, and environmental print.

Magnetic Madness (Grades K-2)

Language Arts (Common Core)

(SL) Speaking and Listening – Comprehension and collaboration

SL.(k-2).2 Ask and answer questions about key details in a text.

SL.(K-2).3 Ask and answer questions in order to clarify comprehension on a topic.

(L) Language – Vocabulary acquisition and use

L.(k-2).4 determine the use of unknown word or phrase

L(K-2).6 acquire and use accurately grade appropriate general academic and domain specific words and phrases.

Math (Common Core)

Mathematical Practices

1. Make sense of problems and persevere in solving them.
3. Construct viable arguments and critique the reasoning of others.
8. Look for and express regularity in repeated reasoning.

Science

N.2.A.1 Students know how to make observations and give descriptions using words, numbers, and drawings. E/S

N.2.A.2 Students know tools can be used safely to gather data and extend the senses. I/L

N.2.A.3 Students know observable patterns can be used to predict future events or sort items. E/S

P.B.2.3 Students know magnets can be used to make some things move without being touched. E/S

School Field Trip Program Standards (continued)



Defying Gravity (Grades 3-4)

Language Arts (Common Core)

SL.4.1 Engage effectively in a range of collaborative discussions.

L.4.6 Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being and that are basic to a particular topic.

Science

P.5.A.3 Students know materials can be classified by their observable physical and chemical properties (e.g., magnetism, conductivity, density, and solubility).

NS.5.A Students understand that science involves asking and answering questions and comparing the answers to what scientists know about the world.

Mousetrap Racers (Grades 5-6)

Language Arts (Common Core)

1.1.5 With assistance, identify content-specific vocabulary in text.

8.3-5.2 – Use precise language to describe experiences, observations, and ideas.

Math (Common Core)

2.2 & 1.1 Recognize, describe, label, extend, and create simple repeating patterns using symbols, objects, and manipulatives.

2.k.1 identify attributes used to sort objects.

Science/Social Studies

N.2.A.1 Students know tools can be used safely to gather data and extend the senses.

N.2.A.3 Students know observable patterns can be used to predict future events of sort items.

E.5.A Students understand the water cycle's relationship to weather.

E.5.A.2 – Students know the processes of the water cycle, including the role of the sun.

Spark!Lab Special (Grades K-12)

Language Arts (Common Core)

SL.4.1 Engage effectively in a range of collaborative discussions.

L.4.6 Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being and that are basic to a particular topic.

Science

NS 5.A.5 Students know how to plan and conduct a safe and simple investigation.

NS 5.B.2 Students know technologies impact society, both positively and negatively.

NS 5.B.3 Students know the benefits of working with a team and sharing findings.