



GCV&M Curriculum Connections (Grades 6-12)

Nature Adventures Through Time

Using structure and fun, students will learn about factors that influence changes in the environment over time, conduct experiments to determine previous environmental changes, and model how other environmental conditions can influence changes. By field trip end, students will understand and experience different earth systems that have created change or can make change over time.

FIELD TRIP OBJECTIVES

- The student will be able to identify factors that impact population.
- The student will demonstrate different types of erosion and how they shape Earth's topography
- The student will use soil layers to explain changes that have occurred in the land use
- The student will model competition for natural resources as it pertains to natural selection and evolution
- The student will conduct experiments using the scientific method.

KEY WORDS

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|--------------------|----------------|
| Natural Selection | Erosion |
| Habitat Loss | Competition |
| Ecosystems | Climate |
| Glacier Formations | Watershed |
| Biodiversity | Geoscience |
| Fossil Record | Population |
| Adaptations | Interdependent |
| Sustainability | Relationships |

Connections to NYS Standards

Middle School

MS. Matter and Energy in Organisms and Ecosystems: **MS-LS2-1** and **MS-LS2-3**

MS. Interdependent Relationships in Ecosystems: **MS-LS2-2** and **MS-LS2-5**

MS. Natural Selection and Adaptations: **MS-LS4-1** and **MS-LS4-6**

MS. History of the Earth: **MS-ESS2-2**

MS. Earth's Systems: **MS-ESS2-1** and **MS-ESS3-1**

MS. Human Impacts: **MS-ESS3-3** and **MS-ESS3-4**

High School

HS. Matter and Energy in Organisms and Ecosystems: **HS-LS2-3** and **HS-LS2-4**

HS. Interdependent Relationships in Ecosystems: **HS-LS2-1**, **HS-LS2-2**, and **HS-LS2-7**

HS. Natural Selection and Evolution: **HS-LS4-3**, **HS-LS4-4**, and **HS-LS4-5**

HS. History of the Earth: **HS-ESS1-5** and **HS-ESS1-6**

HS. Earth's Systems: **HS-ESS2-5** and **HS-ESS2-7**

HS. Human Sustainability: **HS-ESS3-1** and **HS-ESS3-3**