

Standards and Glossary

Standards:

Activity 1: Nature Near and Far

New York State P-12 Science Learning Standards

- Disciplinary Core Idea ESS3.C: Human Impacts on Earth Systems
 - Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space. But individuals and communities are doing things to help protect Earth's resources and environments.
- Disciplinary Core Idea LS2.C: Ecosystem Dynamics, Functioning, and Resilience
 - When the environment changes in ways that affect a place's physical characteristics, temperature, or availability of resources, some organisms survive and reproduce, others move to new locations, yet others move into the transformed environment, and some die.

3-5 Next Generation ELA Standards

- 4R1: Locate and refer to relevant details and evidence when explaining what a text says explicitly/implicitly and make logical inferences.

Activity 2: Spillover Game

New York State P-12 Science Learning Standards

- Performance Expectation 3-LS4-3.
 - Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.
- Disciplinary Core Idea LS4.D: Biodiversity and Humans
 - Populations live in a variety of habitats, and change in those habitats affects the organisms living there.
- Science and Engineering Practice 7: Engaging in Argument from Evidence
 - Construct an argument with evidence, data, and/or a model

3-5 Next Generation ELA Standards

- 3W1: Write an argument to support claim(s), using clear reasons and relevant evidence.
- 4W5: Draw evidence from literary or informational texts to respond and support analysis, reflection, and research

Activity 3: Conservation Action Plan

New York State P-12 Science Learning Standards

- Performance Expectation 3-LS4-4
 - Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.
- Performance Expectation 5-ESS3-1
 - Obtain and combine information about ways individual communities use science ideas to protect Earth’s resources and environment.
- Science and Engineering Practice 7: Engaging in Argument from Evidence
 - Make a claim about the merit of a solution to a problem by citing relevant evidence about how it meets the criteria and constraints of the problem.

3-5 Next Generation ELA Standards

- 3R3: In informational texts, describe the relationship among a series of events, ideas, concepts, or steps in a text, using language that pertains to time, sequence, and cause/effect
- 5SL1d: Consider the ideas expressed and draw conclusions about information and knowledge gained from the discussions

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Glossary:

Crude Oil	The oil that comes directly from the ground and is used to make gasoline and plastic.
Disease	When a living thing is sick; this is often caused by a bacteria or virus.
Spillover Event	When an infection or pathogen travels from one kind of animal to a different kind of animal, including humans.
Gasoline	The fuel used for cars and other objects that have motors.
Genetic Diversity	The total number of genetic characteristics in the genetic makeup of a species, it ranges widely from the number of species to differences within species.
Habitat	The natural home or environment of an animal or plant.
Industrial Logging	When the forest is cut down to use the wood for buildings, furniture, or paper.
Infection	The establishment of pathogens (such as bacteria, protozoans, or viruses) in or on the body of a suitable host.
Nature	Any outdoor space with places where both plants and animals can live.

Pathogen	A bacterium, virus, or other microorganism that can cause disease.
Population	A group of the same animals or plants living in the same area.
Tropical	Places that are warm most of the year because they are near the Earth's equator.
Zoonotic Disease	A disease that starts in animals and transfers into humans.

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