

# New York State P-12 Science Learning Standards (NYSSLS)

## MS. Interdependent Relationships in Ecosystems

- ✓ Complete Standard for New York Middle School - Interdependent Relationships in Ecosystems Standard
- ✓ MS-LS2-2, LS2-5
- ✓ The Bundle will SAVE you 70%



# UPGRADE to the Bundle



## This Bundle:

- Get immediate access to my **COMPLETE** New York State Middle School Curriculum
- Every standard covered at a **HUGE DISCOUNT**

## New York Middle School Science Curriculum

New York State P-12 Science Learning Standards (NYSSLS)

- ✓ Standards are directly aligned to New York State Middle School Science Standards according to the New York State Education Department
- ✓ The Bundle will SAVE you 80%



# Click here to have a look

# Resources Included

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## MS-LS2-2

- Biodiversity and Interrelationships Species Interactions and Relationships Lesson
- Biotic and Abiotic Population Influences Lesson
- Predator Prey Relationships Reading
- Ecosystems Interactions - Abiotic and Biotic - Station Activity
- Crash Course Video Worksheet - Predators

## MS-LS2-5

- Biodiversity and Invasive Species Lesson
- Biodiversity Culminating Project Bundle
- The Devastating Impact of Industrial Pollution on Local Water Source
- The Effects of Pollution Reading
- Water Filtration Engineering Challenge
- Weathering, Erosion, and Deposition Lesson
- Biodiversity and Ecosystem Services - Station Activity



# Bundles Included

## NGSS MS-LS2-2

### Curriculum Bundle

**Ecosystem Interactions: Predicting Patterns in Predator, Prey, & Symbiotic Relationships**

- ✓ 2 Lesson and 3 Activities
- ✓ Everything You Need to Teach NGSS MS-LS2-2



## NGSS MS-LS2-5

### Curriculum Bundle

**Design Solutions to Protect Biodiversity and Ecosystems**

- ✓ 2 Lessons and 5 Activities
- ✓ Everything You Need to Teach NGSS MS-LS2-5



# Everything You Need to Teach Middle School Interdependent Relationships in Ecosystems in New York State using NYSSLS

## Complete Lessons

### Biodiversity and Invasive Species

**TWF**

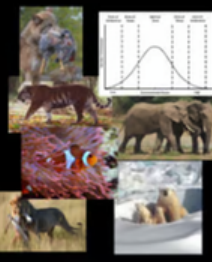
- Invasive vs. Native Species
- The Effect of an Invasive Species on an Ecosystem
- How Invasive Species Reduce Biodiversity
- Case Study - The Small Asian Mongoose and Cane Toad
- Controlling Invasive Species
- 5 Extreme Invasive Species



### Biotic and Abiotic Population Influences

- Biotic and Abiotic Factors
- Limiting factors
- Tolerance
- Carrying Capacity
- Symbiosis
- Predator-Prey relationships
- Population Equation
- Exponential growth

Google Slides and PowerPoint Versions Included  
Google Classroom Ready



### Erosion, Weathering, and Deposition

MIDDLE SCHOOL – EARTH SCIENCE

- Physical Weathering
- Chemical Weathering
- Erosion
- Sediment Transport
- Deposition



## Engaging Activities

### Case Study

"Toxic Waters: The Devastating Impact of Industrial Pollution on a Local Water Source"



**TWF**

Improve your students' Scientific Literacy and Analysis Skills, use an an Emergency Substitute Plan or create Applicability in your classroom.

### Reading Comprehension Passage & Questions

#### Effects of Pollution

6th, 7th, and 8th Grade Science

- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions



### WATER FILTRATION ENGINEERING CHALLENGE

#### MIDDLE SCHOOL

STEM CHALLENGE



**TWF**

### Biodiversity and Ecosystem Services

NGSS-MS-LS2-5 Station Activity

**TWF**



# The Standard is Explained and the Resources it Incorporates are Outlined

## MS. Interdependent Relationships in Ecosystems – New York State – Middle School

**MS-LS2-2.** Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems. [Clarification Statement: Emphasis is on predicting consistent patterns of interactions in different ecosystems in terms of the relationships among and between organisms and abiotic components of ecosystems. Examples of types of interactions could include competitive, predatory, and mutually beneficial.]

### *Resources:*

- Biodiversity and Interrelationships Species Interactions and Relationships Lesson
- Biotic and Abiotic Population Influences Lesson
- Predator Prey Relationships Reading
- Ecosystems Interactions - Abiotic and Biotic - Station Activity
- Crash Course Video Worksheet - Predators

**MS-LS2-5.** Evaluate competing design solutions for maintaining biodiversity and ecosystem services. [Clarification Statement: Examples of ecosystem services could include water purification, nutrient recycling, and prevention of soil erosion. Examples of design solution constraints could include scientific, economic, and social considerations.]

### *Resources:*

- Biodiversity and Invasive Species Lesson
- Biodiversity Culminating Project Bundle
- The Devastating Impact of Industrial Pollution on Local Water Source
- The Effects of Pollution Reading
- Water Filtration Engineering Challenge
- Weathering, Erosion, and Deposition Lesson
- Biodiversity and Ecosystem Services - Station Activity



# Who is this Bundle for?

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- Teachers who teach middle school science in **New York State** and use **NYSSLS**
- Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard
- Teachers who don't have time to develop their own resources or organize what to teach and when

