

NGSS MS-LS2

Interactions, Energy, and Dynamics

Full Standard BUNDLE

- ✓ Everything You Need to Teach NGSS MS-LS2
- ✓ Lessons, Activities, Labs, Projects, and more
- ✓ MS-LS2-1, LS2-2, LS2-3, LS2-4, LS2-5



Bundles Included

NGSS MS-LS2-1 Curriculum Bundle

Resource Availability and Population Growth

- ✓ 3 Lesson and 5 Activities
- ✓ Everything You Need to Teach NGSS MS-LS2-1



NGSS MS-LS2-4 Curriculum Bundle

How Ecosystem Changes Affect Populations

- ✓ 4 Lessons and 9 Activities
- ✓ Everything You Need to Teach NGSS MS-LS2-4



NGSS MS-LS2-3 Curriculum Bundle

Energy Flow and Matter Cycling in Ecosystems

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



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



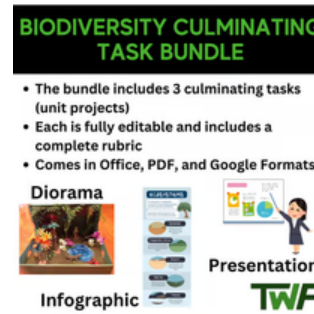
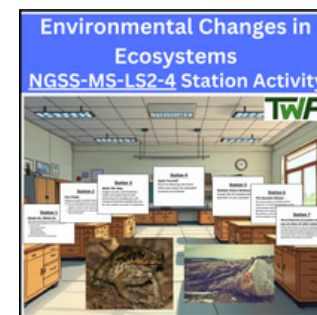
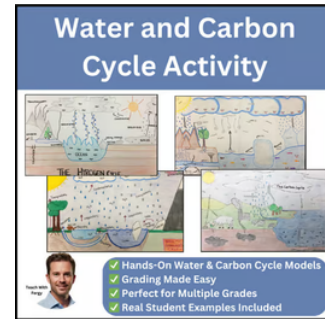
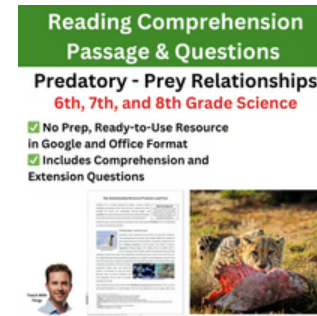
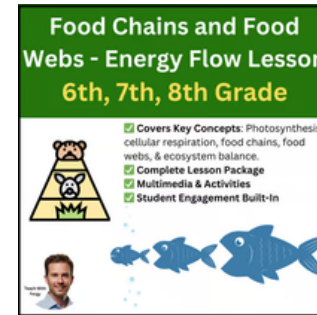
Everything You Need to Completely Cover NGSS MS-LS2

Complete Lessons

Activities

Labs

Projects



The Standard is Explained and the Resources it Incorporates are Outlined

MS-LS2 Interactions, Energy, and Dynamics

Note: There are resources that overlap between the standards. Simply choose the order that best fits your classroom. Also, there are more resources here than you will most likely decide to use. I have provided extra so you can make the best decision for your students on what is best to include.

MS-LS2-1. Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem. [Clarification Statement: Emphasis is on cause-and-effect relationships between resources and growth of individual organisms and the numbers of organisms in ecosystems during periods of abundant and scarce resources.]

Resources:

- Food Chains and Food Webs - Energy Flow in Ecosystems Lesson and Worksheet
- Populations and Resource Availability Station Activity
- Interactions Within Ecosystems Lab Station Activity
- Biotic and Abiotic Population Influences Lesson
- Predator Prey Relationships Reading
- Crash Course Ecology Video Worksheet Population Ecology
- Biodiversity Culminating Project Bundle
- Biodiversity and Invasive Species Lesson

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-LS2-3. Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem. [Clarification Statement: Emphasis is on describing the conservation of matter and flow of energy into and out of various ecosystems, and on defining the boundaries of the system.]

Resources:

- Cycling of Matter Lesson
- Food Chains and Food Webs - Energy Flow in Ecosystems Lesson
- Matter and Energy Cycling in Ecosystems - Station Activity
- Cycling of Matter in Ecosystems - Water and Carbon Cycles – Scavenger Hunt
- Cycling of Matter Digital INB
- The Carbon and Water Cycle - Lab Station Activity
- Water and Carbon Cycle Diagram Activity

MS-LS2-4. Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations. [Clarification Statement: Emphasis is on recognizing patterns in data and making warranted inferences about changes in populations, and on evaluating empirical evidence supporting arguments about changes to ecosystems.]

Resources:

- Biotic and Abiotic Population Influences Lesson
- Predator Prey Relationships Reading
- Biodiversity and Invasive Species Lesson
- Environmental Changes in Ecosystems - Station Activity
- Climate Change Lesson
- Crash Course Video Worksheet The Effects of Climate Change
- Crash Course Video Worksheet What is Climate Change
- Biodiversity and Climate Change Lesson
- Case Study - Koalas and Climate Change
- Fracking and Its Dangers Reading
- Invasive Species Reading
- Invasive Species Digital Scavenger Hunt
- Invasive Species Digital Interactive Notebook Pages

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?

- **Teachers who teach Middle School Science and use the NGSS**
- **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**