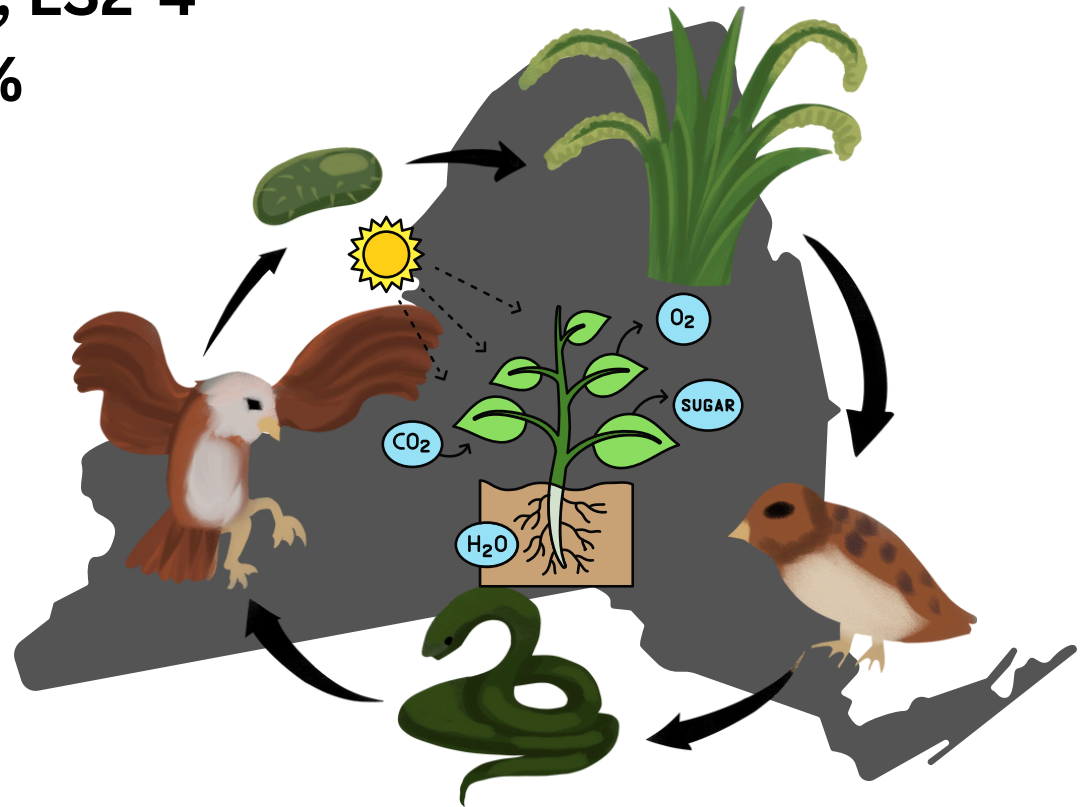


New York State P-12 Science Learning Standards (NYSSLS)

MS. Matter and Energy in Organisms and Ecosystems

- ✓ Complete Standard for New York Middle School - Matter and Energy in Organisms and Ecosystems Standard
- ✓ MS-LS1-6, LS1-7, LS2-1, LS2-3, LS2-4
- ✓ 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%

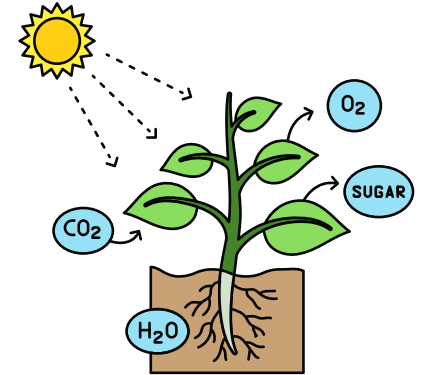


Click here to have a look

Resources Included

MS-LS1-6

- Photosynthesis Lesson
- Photosynthesis Station Activity
- Photosynthesis Comic Book Assignment
- Photosynthesis Infographic Assignment
- Photosynthesis Projects PBL
- Photosynthesis Reading
- Why Leaves Change Color in the Fall - Reading
- Crash Course Carbon Biological Molecules Video Worksheet
- Carbon Cycle Diagram Activity



MS-LS1-7

- Cellular Respiration Lesson
- Carbon Cycle Diagram Activity
- Cellular Respiration - Station Activity
- Crash Course - Do Cells Breathe Video Worksheet
- Photosynthesis and Cellular Respiration - Crossword Puzzle Activity
- Photosynthesis and Cellular Respiration BINGO
- Photosynthesis and Cellular Respiration Lab Station Activity
- Photosynthesis and Cellular Respiration Word Search and Scramble Activity



Resources Included

MS-LS2-1

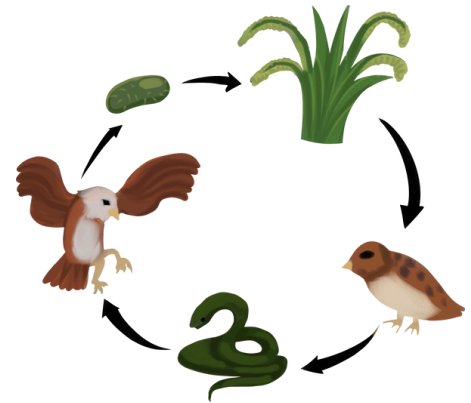
- Food Chains and Food Webs - Energy Flow in Ecosystems Lesson and Worksheet
- Populations and Resource Availability Station Activity
- Interactions Within Ecosystems Lab Station Activity
- Biotic and Abiotic Population Influences Lesson
- Predator Prey Relationships Reading
- Crash Course Ecology Video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

MS-LS2-3

- 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

- 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



Bundles Included

NGSS MS-LS1-6 Curriculum Bundle

Role of Photosynthesis in the Cycling of Matter and Flow of Energy

- ✓ 1 Lesson and 8 Activities
- ✓ Everything You Need to Teach NGSS MS-LS1-6



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-LS1-7 Curriculum Bundle

Food, Energy, and Chemical Reactions in the Body

- ✓ 1 Lesson and 7 Activities
- ✓ Everything You Need to Teach NGSS MS-LS1-7



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



Everything You Need to Teach Middle School Matter and Energy in Organisms and Ecosystems in New York State using NYSSLS

Complete Lessons

Food Chains and Food Webs - Energy Flow Lesson
6th, 7th, 8th Grade



- ✓ Covers Key Concepts: Photosynthesis, cellular respiration, food chains, food webs, & ecosystem balance.
- ✓ Complete Lesson Package
- ✓ Multimedia & Activities
- ✓ Student Engagement Built-In



Cellular Respiration Lesson
6th, 7th, 8th Grade



- ✓ Introduces Cellular Respiration - No Prep and Editable
- ✓ Lesson and Video Worksheet
- ✓ Connects Photosynthesis and Cellular Respiration



Photosynthesis Lesson
6th, 7th, 8th Grade



- ✓ Introduces Photosynthesis - No Prep and Editable
- ✓ Lesson and Infographic Activity
- ✓ Connects Photosynthesis and Cellular Respiration



Climate Change and Global Warming Lesson
6th, 7th, 8th Grade

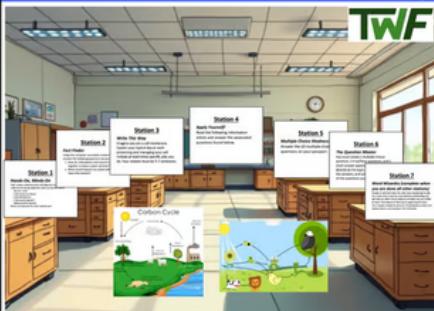


- ✓ Complete Two-Day Lesson
- ✓ Interactive & Inquiry-Based
- ✓ Google & Distance Learning Ready
- ✓ Auto-Graded Exit Ticket & Quiz



Engaging Activities

Matter and Energy Cycling in Ecosystems
NGSS-MS-LS2-3 Station Activity



Carbon and Water Cycle Lab Station Activity



Your lab station contains 7 unique activities to get your students out of their seats and engaged in their learning.



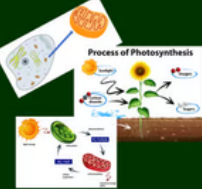
Carrying Capacity Lab
The Pine Valley Challenge

Ecosystem Dynamics 



MS-LS2-1

Photosynthesis and Cellular Respiration
Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning.



The Standard is Explained and the Resources it Incorporates are Outlined

MS. Matter and Energy in Organisms and Ecosystems— New York State – Middle School

MS-LS1-6. Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.

[Clarification Statement: Emphasis is on tracing movement of matter and flow of energy.] [Assessment Boundary: Assessment does not include the bio-chemical mechanisms of photosynthesis.]

Resources:

- Photosynthesis Lesson
- Photosynthesis Station Activity
- Photosynthesis Comic Book Assignment
- Photosynthesis Infographic Assignment
- Photosynthesis Projects PBL
- Photosynthesis Reading
- Why Leaves Change Color in the Fall - Reading
- Crash Course Carbon Biological Molecules Video Worksheet
- Carbon Cycle Diagram Activity

MS-LS1-7. Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.

[Clarification Statement: Emphasis is on describing that molecules are broken apart and put back together and that in this process, energy is released.] [Assessment Boundary: Assessment does not include details of the chemical reactions for photosynthesis or respiration.]

Resources:

- Cellular Respiration Lesson
- Carbon Cycle Diagram Activity
- Cellular Respiration - Station Activity
- Crash Course - Do Cells Breathe Video Worksheet
- Photosynthesis and Cellular Respiration - Crossword Puzzle Activity
- Photosynthesis and Cellular Respiration BINGO
- Photosynthesis and Cellular Respiration Lab Station Activity
- Photosynthesis and Cellular Respiration Word Search and Scrabble

MS-LS2-1. Analyze and interpret data to provide evidence for the effects of organisms and populations of organisms in an ecosystem. [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:

- Food Chains and Food Webs - Energy Flow in Ecosystems Lesson
- 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-LS2-3. 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.]

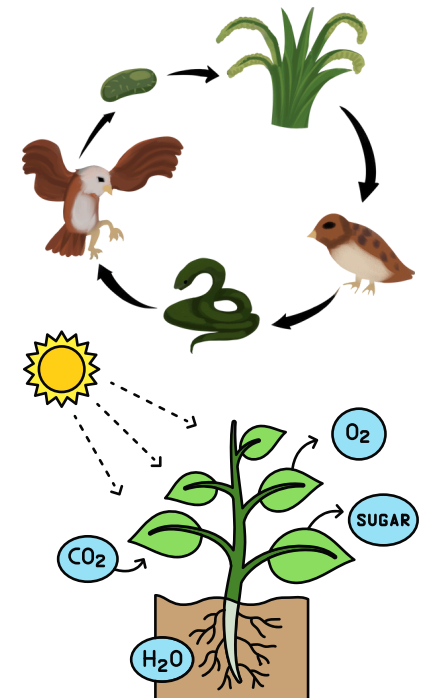
Resources:

- 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



Who is this Bundle for?

- 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

