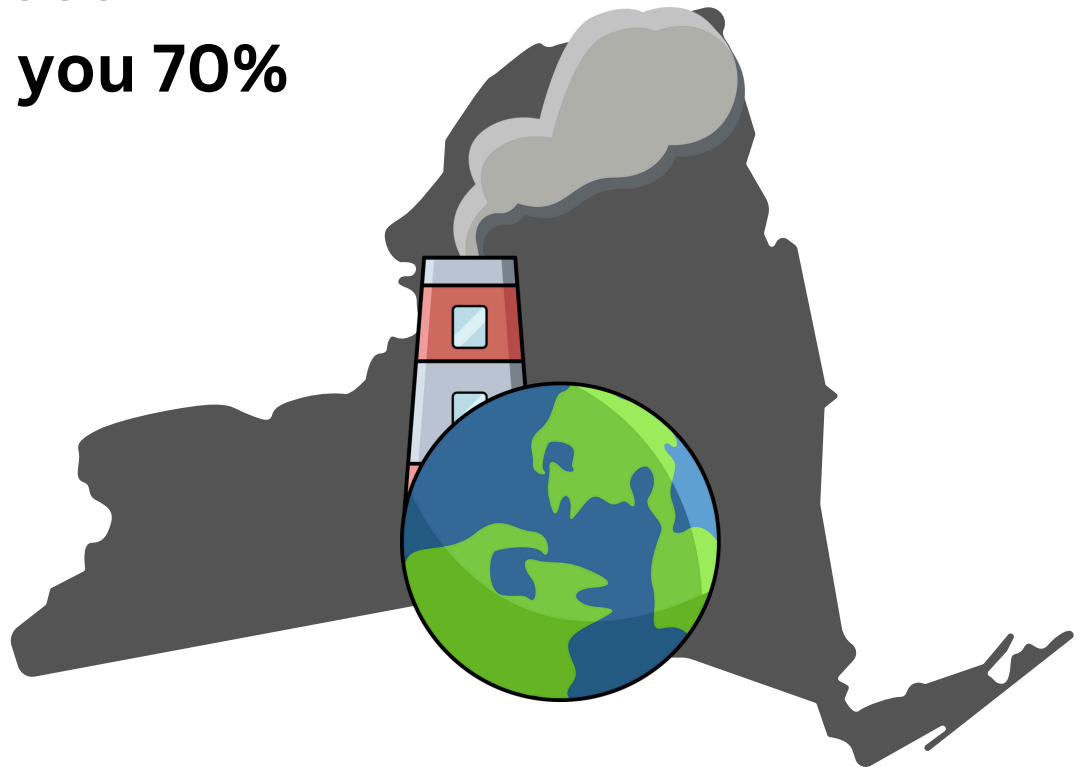


New York State P-12 Science Learning Standards (NYSSLS)

MS. Human Impacts

- ✓ Complete Standard for New York Middle School - Human Impacts Standard
- ✓ MS-ESS3-2, ESS3-3, ESS3-4
- ✓ 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

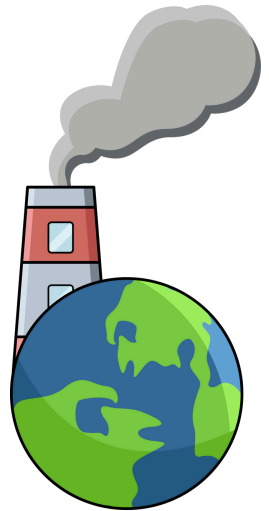
MS-ESS3-2

- Earthquakes, Volcanoes and Tsunamis Lesson
- Earthquakes and Volcanoes - Scavenger Hunt
- Earthquakes and Volcanoes Lab Station Activity
- Earthquakes Reading
- Hurricanes Reading
- Volcanoes Reading
- Straw Tower STEM Engineering Challenge
- Paper Bridge STEM Challenge
- Pasta Tower STEM Challenge



MS-ESS3-3

- Reducing Human Impact on the Environment Lesson
- Save the Drops – Designing a Water Conservation Plan Project
- Build Your Own Aquifer Project
- Crash Course Video Worksheet Human Impacts on the Environment
- Human Impact on Ecosystems Assignment
- Human Impact on Ecosystems Inquiry Lab Experiment Ecobottles
- Pollution Control Devices Reading
- Case Study The Impact of Industrial Pollution on Local Water Source
- Urban Sprawl Reading
- Crash Course Video Worksheet How Are Cities Organized



Resources Included

MS-ESS3-4

- Understanding Biodiversity – Lesson
- Biodiversity and Climate Change – Lesson
- Earth's Natural Resources - Mineral Energy and Groundwater - Lesson
- Biodiversity – Reading
- Earth's Natural Resources - Reading
- Build Your Own Aquifer – Project
- Invasive Species – Project
- Human Impact on Ecosystems - Assignment
- Crash Course Video Worksheet - The Effects of Climate Change
- Crash Course Video Worksheet - Human Population Growth
- Crash Course Video Worksheet - Mineral Extraction
- Case Study - Plastic Pollution and Marine Ecosystems
- Case Study - Causes and Consequences of Deforestation in the Amazon Rainforest
- Case Study - Investigating the Impact of Climate Change on Coral Reefs



Bundles Included

NGSS MS-ESS3-2 Curriculum Bundle

Forecasting Natural Hazards

- ✓ 1 Lesson and 8 Activities
- ✓ Everything You Need to Teach NGSS MS-ESS3-2



NGSS MS-ESS3-3 Curriculum Bundle

Human Impact on the Environment

- ✓ 1 Lesson and 9 Activities
- ✓ Everything You Need to Teach NGSS MS-ESS3-3



NGSS MS-ESS3-4 Curriculum Bundle

Environmental Impacts of Human Population & Resource Use

- ✓ 3 Lessons, 3 Projects, and 8 Activities
- ✓ Everything You Need to Teach NGSS MS-ESS3-4



Everything You Need to Teach Middle School Human Impacts in New York State using NYSSLS

Complete Lessons

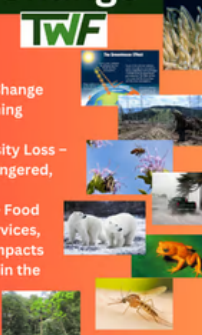
Reducing Human Impact on the Environment - Lesson
6th, 7th, 8th Grade

- ✓ **Reducing Human Impact on the Environment:** Why the Environment Matters, What is Human Impact and Common Types, Scientific Monitoring, Government Agencies, and What We Can Do.
- ✓ **Student + Teacher Versions:** Office, Google, and PDF Versions
- ✓ **Multimedia-Rich Lesson with No Prep Required**



Biodiversity and Climate Change

- What is Climate Change?
- How Climate Change Affects Biodiversity
- Habitat Loss Due to Climate Change
- Case Study: Coral Reef Bleaching
- Changing Species Habitats
- Climate Change and Biodiversity Loss – Vulnerable, Threatened, Endangered, Extinct
- Impacts of Biodiversity Loss – Food webs, Reduced ecosystem services, Economic impacts, Cultural impacts
- Case Study: Biodiversity Loss in the Amazon Rainforest
- Global Consequences
- What We Can Do



Understanding Biodiversity: Life's Variety Lesson

- What is Biodiversity?
- Levels of Biodiversity
- Genetic Diversity, Species Diversity, Ecosystem Diversity
- Biodiversity in Your Backyard
- Biodiversity Hotspots
- Why is Biodiversity Important?
- Threats to Biodiversity
- Protecting Biodiversity



Earthquakes, Volcanoes, and Tsunamis

- Earthquakes
- Tectonic Plates, Boundaries, and Seismic Waves
- The Great Chilean Earthquake
- Volcanoes
- Types of Volcanoes
- Volcano Dangers
- Mount Tambora
- Tsunamis
- Social and Environment Impact of Tsunamis



This digital presentation includes both Google and Office resources and is Google Classroom Ready

Engaging Activities

Earth's Natural Resources Lesson
Minerals, Energy, and Groundwater
6th, 7th, 8th Grade

- ✓ **Covers:** Minerals, energy sources, and groundwater
- ✓ **For Each, the Lesson Teaches:** Formation, location, extraction, and human impact of natural resources.
- ✓ **Ideal for Middle School Science**
- ✓ **No-Prep Resource**



Human Impact on Ecosystems Assignment

Ecology Inquiry-Based Project

- ✓ **Inquiry-Based Ecosystem Project**
- ✓ **Customizable & Device-Friendly**
- ✓ **Includes Rubric & Topic Choices**
- ✓ **Ideal for Grades 5–9**



Reading Comprehension Passage & Questions

Urban Sprawl
6th, 7th, and 8th Grade Science

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



Device-Based Scavenger Hunt Earthquakes and Volcanoes



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

- **100% Digital**
- Simulations
- Quizzes
- Videos
- Games
- and more



The Standard is Explained and the Resources it Incorporates are Outlined

MS. Human Impacts – New York State – Middle School

MS-ESS3-2. Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.

[Clarification Statement: Emphasis is on how some natural hazards, such as volcanic eruptions and severe weather, are preceded by phenomena that allow for reliable predictions, but others, such as earthquakes, occur suddenly and with no notice, and thus are not yet predictable. Examples of natural hazards can be taken from interior processes (such as earthquakes and volcanic eruptions), surface processes (such as mass wasting and tsunamis), or severe weather events (such as hurricanes, tornadoes, and floods). Examples of data can include the locations, magnitudes, and frequencies of the natural hazards. Examples of technologies can be global (such as satellite systems to monitor hurricanes or forest fires) or local (such as building basements in tornado-prone regions or reservoirs to mitigate droughts).]

Resources:

- Earthquakes, Volcanoes and Tsunamis Lesson
- Earthquakes and Volcanoes - Scavenger Hunt
- Earthquakes and Volcanoes Lab Station Activity
- Earthquakes Reading
- Hurricanes Reading
- Volcanoes Reading
- Straw Tower STEM Engineering Challenge
- Paper Bridge STEM Challenge
- Pasta Tower STEM Challenge

MS-ESS3-3. Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment. * [Clarification Statement: Examples of the design process include examining human environmental impacts, assessing the kinds of solutions that are feasible, and designing and evaluating solutions that could reduce that impact. Examples of human impacts can include water usage (such as the withdrawal of water from streams and aquifers or the construction of dams and levees), land usage (such as urban development, agriculture, or the construction of roads and pollution (such as of the air, water, or land).]

Resources:

- Reducing Human Impact on the Environment Lesson
- Save the Drops – Designing a Water Conservation Plan Project
- Build Your Own Aquifer Project
- Crash Course Video Worksheet Human Impacts on the Environment
- Human Impact on Ecosystems Assignment
- Human Impact on Ecosystems Inquiry Lab Experiment Ecobottles
- Pollution Control Devices Reading
- Case Study The Impact of Industrial Pollution on Local Water Source
- Urban Sprawl Reading
- Crash Course Video Worksheet How Are Cities Organized

MS ESS3-4: Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems

Examples of evidence include grade-appropriate databases on human populations and the rates of consumption of food and natural resources (such as freshwater, mineral, and energy). Examples of impacts can include changes to the appearance, composition, and structure of Earth's systems as well as the rates at which they change. The consequences of increases in human populations and consumption of natural resources are described by science, but science does not make the decisions for the actions society takes

Resources:

- Understanding Biodiversity – Lesson
- Biodiversity and Climate Change – Lesson
- Earth's Natural Resources - Mineral Energy and Groundwater - Lesson
- Biodiversity – Reading
- Earth's Natural Resources - Reading
- Build Your Own Aquifer – Project
- Invasive Species – Project
- Human Impact on Ecosystems - Assignment
- Crash Course Video Worksheet - The Effects of Climate Change
- Crash Course Video Worksheet - Human Population Growth
- Crash Course Video Worksheet - Mineral Extraction
- Case Study - Plastic Pollution and Marine Ecosystems
- Case Study - Causes and Consequences of Deforestation in the Amazon Rainforest
- Case Study - Investigating the Impact of Climate Change on Coral Reefs



Who is this Bundle for?

- Teachers who teach middle school science in **New York State** and use the **NYSSLS** 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.

