

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-ESS3-3

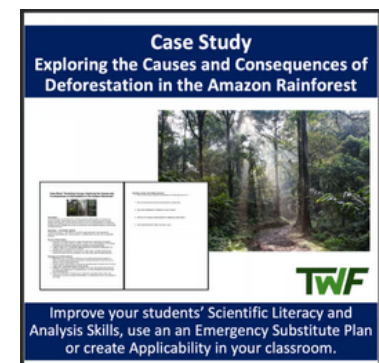
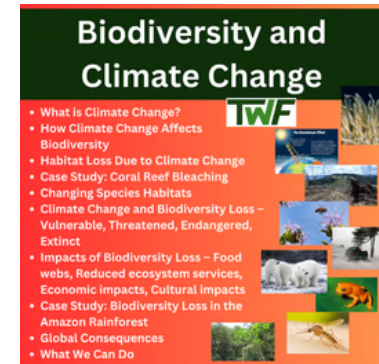


Resources Included

✓ 3 Lessons and 3 Projects

✓ 8 Activities

- 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



Everything You Need to Teach NGSS MS-ESS3-4

Biodiversity and Climate Change

TWF

- 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

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



Case Study

"Fragile Balance: Investigating the Impact of Climate Change on Coral Reefs"

TWF

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

Understanding Biodiversity: Life's Variety Lesson

TWF

- 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



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

Earth's Natural Resources: Mineral, Energy, & Groundwater

6th, 7th, and 8th Grade Science

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



Case Study: The Effects of Plastic Pollution on Marine Ecosystems

TWF

Crash Course Biology 2.0

#9: The Effects of Climate Change

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)



Includes Student Copy and Answer Keys

Reading Comprehension Passage & Questions

Biodiversity

6th, 7th, and 8th Grade Science

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



Case Study

Exploring the Causes and Consequences of Deforestation in the Amazon Rainforest

TWF

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

Crash Course Ecology #3: Human Population Growth

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

[WATCH VIDEO](#)



Includes Student Copy and Answer Keys

Build Your Own Aquifer

6th, 7th, 8th Grade Project

- ✓ Hands-on Learning
- ✓ Real-World Connections
- ✓ Critical Thinking
- ✓ Engaging and Memorable



The Standard is Explained and the Resources it Incorporates are Outlined

California Preferred Integrated NGSS Course Model – Grade 8 MS-ESS3 Earth and Human Activity

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:

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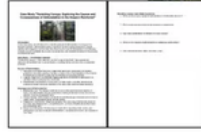


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- Impacts of Biodiversity Loss – Food webs, Reduced ecosystem services, Economic impacts, Cultural Impacts
- Case Study: Biodiversity Loss in the Amazon Rainforest
- Global Consequences
- What We Can Do



Case Study
Exploring the Causes and Consequences of Deforestation in the Amazon Rainforest



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

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**