

# NGSS MS-ESS3-1

## Curriculum Bundle

### Earth's Uneven Natural Resources

- ✓ 5 Lessons and 10 Activities
- ✓ Everything You Need to Teach NGSS MS-ESS3-1

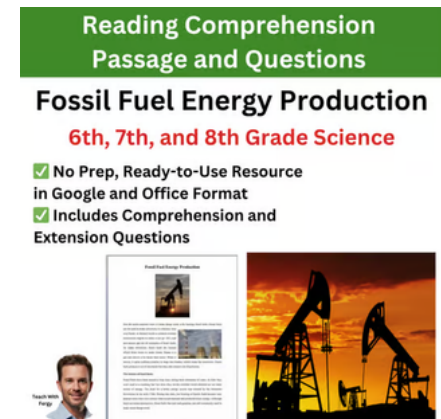
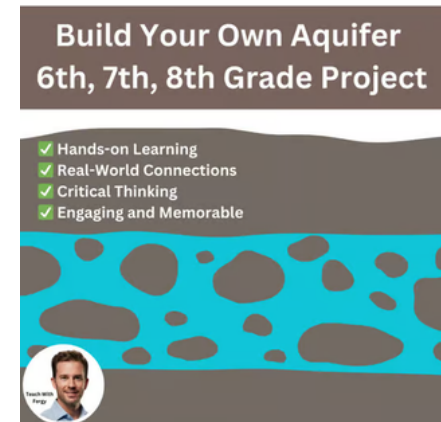
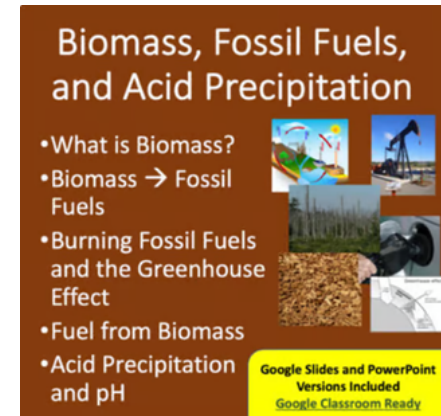


# Resources Included

## ✓ 5 Lessons

## ✓ 10 Activities

- Biomass and Fossil Fuels Lesson
- Biomass and Fossil Fuels Digital INB Pages
- Crash Course Worksheet - Can We Make Electricity without Fossil Fuels
- Crash Course Worksheet - Can We Keep Warm and Stay Cool Without Fossil Fuels
- Case Study - The Devastating Impact of Industrial Pollution on Local Water Source
- Fossil Fuel and Nuclear Energy Production - Scavenger Hunt
- Fossil Fuels Reading
- Nonrenewable Energy Sources Lab Station Activity
- Tectonic Plates Lesson
- Weathering, Erosion, and Deposition Lesson
- The Water Table Lesson
- Volcanoes Reading
- Earth's Natural Resources - Mineral, Energy, and Groundwater Lesson
- Crash Course Worksheet - Mineral Extraction
- Build Your Own Aquifer Project



# Everything You Need to Teach NGSS MS-ESS3-1

## Biomass, Fossil Fuels, and Acid Precipitation

- What is Biomass?
- Biomass → Fossil Fuels
- Burning Fossil Fuels and the Greenhouse Effect
- Fuel from Biomass
- Acid Precipitation and pH



Google Slides and PowerPoint Versions Included  
Google Classroom Ready

## Chapter 7: Biomass and Fossil Fuels

### Digital Interactive Notebook Pages

- 100% Digital and Interactive
- Perfect for your Google Classroom or Microsoft OneDrive



TWFF

## Crash Course Climate & Energy #5: Can We Keep Warm and Stay Cool Without Fossil Fuels?

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

WATCH VIDEO



**Fossil Fuels**

Includes Student Copy and Answer Keys

## Crash Course Climate & Energy #3: Can We Make Electricity Without Fossil Fuels?

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

WATCH VIDEO



Includes Student Copy and Answer Keys

## Device-Based Scavenger Hunt Fossil Fuel and Nuclear Energy Production

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

FOSSIL FUELS

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

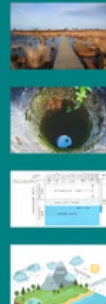


TWFF

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

## The Water Table Lesson

- Groundwater
- Saturated (Phreatic) Zone
- Unsaturated (Vadose) Zone
- The Water Table
- Natural Effects on the Water Table
- Human Effects on the Water Table



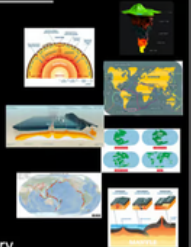
## Nonrenewable Energy Sources Lab Station Activity



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

## Tectonic Plates MIDDLE SCHOOL – EARTH SCIENCE

- Earth's Layers
- The Plate Tectonic Theory
- Earth's Primary & Secondary Plates
- Continental Drift
- The Changing Earth
- Plate Boundaries
  - Divergent, Convergent, & Transform Boundary



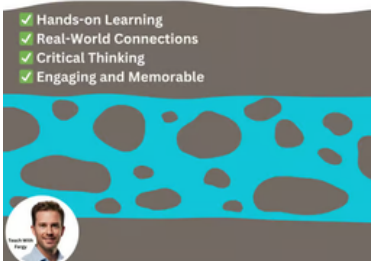
## Reading Comprehension Passage and Questions Fossil Fuel Energy Production 6th, 7th, and 8th Grade Science

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



## Build Your Own Aquifer 6th, 7th, 8th Grade Project

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



## 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



## Reading Comprehension Passage & Questions Volcanoes 6th, 7th, and 8th Grade Science

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



## Erosion, Weathering, and Deposition MIDDLE SCHOOL – EARTH SCIENCE

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



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

## Next Generation Science Standards Package MS ESS3 Earth and Human Activity

**MS-ESS3-1.** Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes. [Clarification Statement: Emphasis is on how these resources are limited and typically non-renewable, and how their distributions are significantly changing as a result of removal by humans. Examples of uneven distributions of resources as a result of past processes include but are not limited to petroleum (locations of the burial of organic marine sediments and subsequent geologic traps), metal ores (locations of past volcanic and hydrothermal activity associated with subduction zones), and soil (locations of active weathering and/or deposition of rock).]

### Resources:

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### Reading Comprehension Passage and Questions

#### Fossil Fuel Energy Production

6th, 7th, and 8th Grade Science

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### Case Study

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

A thumbnail image for the 'Case Study' resource. It shows a title 'Case Study' and a subtitle 'Toxic Waters: The Devastating Impact of Industrial Pollution on a Local Water Source'. Below the text is a photograph of a large suspension bridge over a river. At the bottom, it says 'TWF' and 'Improve your students' Scientific Literacy and Analysis Skills, use an Emergency Substitute Plan or create Applicability in your classroom.'

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Versions Included  
Google Classroom Ready

# **Who is this Bundle for?**

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- **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**