

NGSS MS-ESS1-4

Curriculum Bundle

Geologic Time Scale & Rock Strata: Explaining Earth's History

- ✓ 3 Lessons and 6 Activities
- ✓ Daily Teaching Timeline Included
- ✓ Everything You Need to Teach NGSS MS-ESS1-4

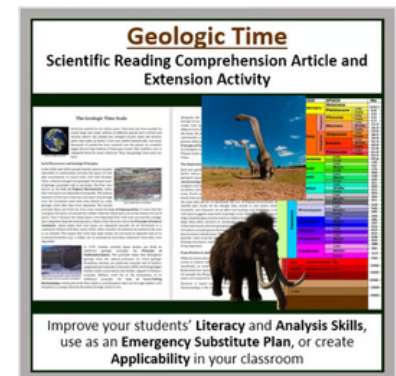
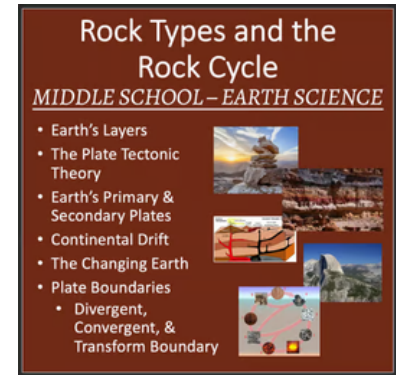


Resources Included

✓ 3 Lessons

✓ 6 Activities

- Rock Types and the Rock Cycle – Lesson
- Fossils and Geologic Time – Lesson
- Earthquakes, Volcanoes and Tsunamis – Lesson
- Geologic Time - Reading
- The Rock Cycle - Scavenger Hunt
- The Rock Cycle - Lab Station Activity
- Earths Systems and the Rock Cycle Review Game - Science Word Sprint
- The Earths Puzzle - A Geologic Adventure - Story Prompt
- The Rock Cycle Word Search and Scramble Activity



Everything You Need to Teach NGSS MS-ESS1-4

Rock Types and the Rock Cycle

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



Fossils and Geologic Time

MIDDLE SCHOOL – EARTH SCIENCE

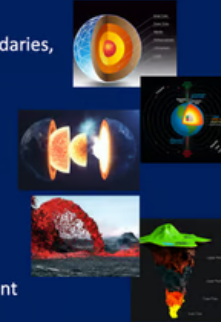
- What is a Fossil?
- How Does Fossilization Occur?
- Rock Strata
- The Fossil Record
- The Geologic Time Scale



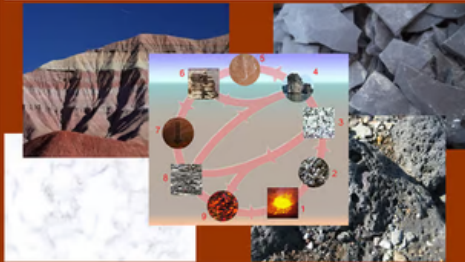
Earthquakes, Volcanoes, and Tsunamis

MIDDLE SCHOOL – EARTH SCIENCE

- 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



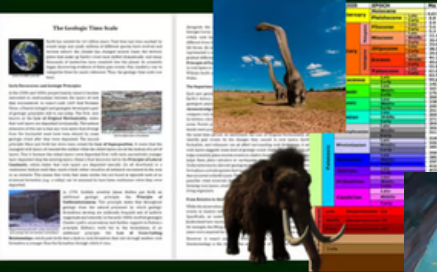
The Rock Cycle Lab Station Activity



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

Geologic Time

Scientific Reading Comprehension Article and Extension Activity



Improve your students' **Literacy and Analysis Skills** by using this as an **Emergency Substitute Plan**, or create your own **Applicability** in your classroom

Device-Based Scavenger Hunt The Rock Cycle



- Includes
- 5 Unique Locations
 - Online form submission
 - Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

The Earth's Puzzle - A Geologic Adventure



Story Prompt

100% Digital
Simulations
Quizzes
Videos
Games
and more

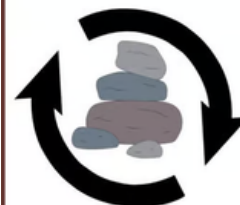


The Rock Cycle Word Search and Scramble

THREE Activities in One!

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity

TWF



Science Word Sprint! Earth's Systems and the Rock Cycle

Students race
against the clock
to guess scientific

terms without
using the
clue terms.



TWF

Earth Sciences

Includes a Daily Teaching Timeline for the Standard and the Resources it Uses

MS ESS1 Earth's Place in the Universe

MS ESS1-4: Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.

Emphasis is on how analyses of rock formations and the fossils they contain are used to establish relative ages of major events in Earth's history. Example of Earth's major events could range from being very recent (such as the last Ice Age or the earliest fossils of *Homo sapiens*) to very old (such as the formation of Earth or the earliest evidence of life). Examples can include the formation of mountain chains and ocean basins, the evolution or extinction of particular living organisms, or significant volcanic eruptions.

Assessment Boundary: Assessment does not include recalling the names of specific periods or epochs and events within them.

Resources:

- Rock Types and the Rock Cycle – Lesson
- Fossils and Geologic Time – Lesson
- Earthquakes, Volcanoes and Tsunamis – Lesson
- Geologic Time - Reading
- The Rock Cycle - Scavenger Hunt
- The Rock Cycle - Lab Station Activity
- Earths Systems and the Rock Cycle Review Game - Science Word Sprint
- The Earths Puzzle - A Geologic Adventure - Story Prompt
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NGSS Standard Daily Teaching Plan

MS ESS1-4: Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.

Lesson Length: 55 minutes

Timeframe: 2 Weeks, 10 Days

Day	Lesson/Activity
Day 1	Rock Types and the Rock Cycle – Lesson The Rock Cycle Word Search and Scramble Activity
Day 2	The Rock Cycle - Scavenger Hunt The Rock Cycle - Lab Station Activity
Day 3	Earths Systems and the Rock Cycle Review Game - Science Word Sprint
Day 4	Fossils and Geologic Time – Lesson Geologic Time - Reading
Day 5	The Earths Puzzle - A Geologic Adventure - Story Prompt
Day 6	Earthquakes, Volcanoes and Tsunamis – Lesson
Day 7	Rock Types and the Rock Cycle – Lesson (Review) The Rock Cycle - Lab Station Activity (Revisit)
Day 8	Fossils and Geologic Time – Lesson (Review) Geologic Time - Reading (Discussion)
Day 9	Earthquakes, Volcanoes and Tsunamis – Lesson (Review) Earths Systems and the Rock Cycle Review Game - Science Word Sprint
Day 10	Comprehensive Review: The Earths Puzzle - A Geologic Adventure - Story Prompt Optional: Any unfinished activities

Rock Types and the Rock Cycle

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- Earth's Primary & Secondary Plates
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Fossils and Geologic Time

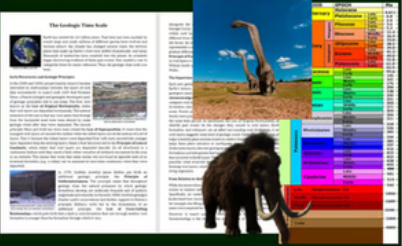
MIDDLE SCHOOL – EARTH SCIENCE

- What is a Fossil?
- How Does Fossilization Occur?
- Rock Strata
- The Fossil Record
- The Geologic Time Scale



Geologic Time

Scientific Reading Comprehension Article and Extension Activity



Improve your students' **Literacy** and **Analysis Skills**, use as 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**