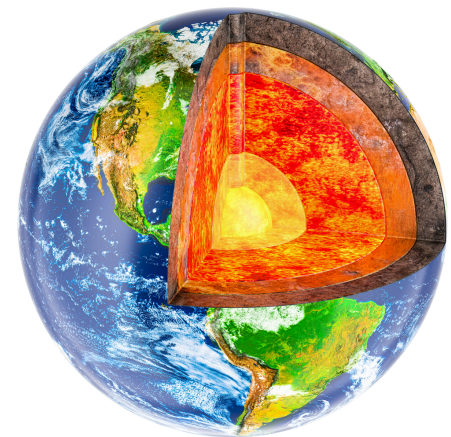
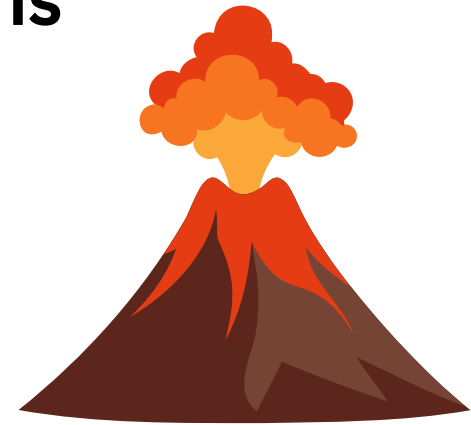


Earth Science Unit

- **Covers: Earth's Composition, Plate Tectonics, Earthquakes, Volcanoes, and Tsunamis, Rock Cycle, Weather and Climate, and the Seasons**
- **Lesson & Engaging Activities**
- **Daily Teaching Schedule**



Teach With
Fergy

Earth Science Unit

Unit - Earth Science

- 8 Lessons & 15 Activities

Earth's Composition

- Earth's Layers
- The Inner and Outer Core
- Planet Formation
- Earth's Magnetic Field
- The Mantle, Crust, Asthenosphere and Lithosphere
- Oceanic Crust

Plate Tectonics

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

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 Environmental Impact of Tsunamis

Rock Cycle

- Rocks vs Minerals
- Three Types of Rock
- Earth's Layers
- Rock Formation
- The Rock Cycle
- Rock Identification

Earth Science Unit

Weather and Climate

- Weather vs. Climate
- The Effect of Latitude, Altitude, and Land Distribution on Climate
- The Effect of Large Bodies of Water on Weather and Climate
- The Coriolis Effect and Trade Winds
- The Effect of Ocean Circulation on Climate
- Extreme Weather
- Supercells and Tornadoes
- Multi-vortex tornadoes
- Waterspouts, Dust Devils, and Fire Whirls
- Damage and the Fujita Scale
- How to be prepared and stay safe
- The Troposphere
- What Causes Weather?
- The Hydrosphere
- Oceans, Lakes, and Weather

Seasons

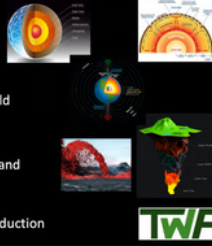
- Earth's Rotation, Tilt & Revolution
- Direct vs. Indirect Sunlight
- The Seasons



Lessons Include Teacher and Student Versions - Videos Embedded in Lessons

Earth's Composition

- Earth's Layers
- The Inner Core
- The Outer Core
- Planet Formation
- Earth's Magnetic Field
- The Mantle
- The Crust
- The Asthenosphere and Lithosphere
- Oceanic Crust
- Tectonic Plates Introduction



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

Extreme Weather

Tornadoes

- Extreme Weather
- Supercells and Non-Supercells
- Tornado Formation
- Characteristics
- Damage and the Fujita Scale
- Where do they form?
- How to be prepared and stay safe



Tectonic Plates

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



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

Google Access

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Google Classroom Ready
One-Click Google Slides Access

Earth's Seasons

- Effects of Earth's Rotation
- Earth's Tilt
- Effect of Earth's Revolution
- The Tilt and Direct Sunlight
- The Seasons

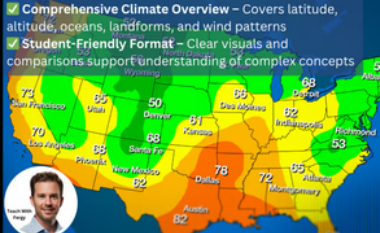


Google Slides and PowerPoint Versions Included
Google Classroom Ready

Regional Climates - Lesson

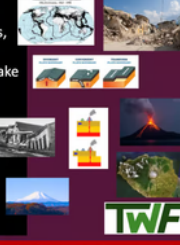
6th, 7th, 8th Grade

- ✓ Comprehensive Climate Overview - Covers latitude, altitude, oceans, landforms, and wind patterns
- ✓ Student-Friendly Format - Clear visuals and comparisons support understanding of complex concepts



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

Climate Patterns - Ocean Circulation

- Deep ocean currents happen because there are differences in seawater densities due to temperature and the amount of salt
- Deep ocean currents also move heat around the planet and is known as the global conveyor belt



Videos embedded in directly into your slides. One-click access.

Water and Weather Lesson

- The Troposphere
- What Causes Weather?
- The Hydrosphere
- Effects of Water Bodies on Weather
- Oceans and Weather
- Lakes and Weather



Rock Types and the Rock Cycle

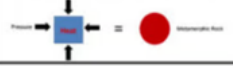
MIDDLE SCHOOL - EARTH SCIENCE

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



Metamorphic Rock

- Rock experiences physical or chemical change
- The new rock is called metamorphic rock



Metamorphic Rock

- Current rock type is changed due to high heat and pressure
- Rock experiences physical or chemical change
- The new rock is called metamorphic rock



Student and Teacher versions of the presentations

Engaging Activities

Device-Based Scavenger Hunt The Rock Cycle

Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

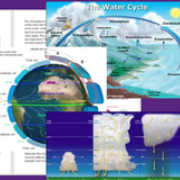
100% Digital

- Simulations
- Quizzes
- Videos
- Games
- and more



How Weather Works

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

Device-Based Scavenger Hunt The Seasons

Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

100% Digital

- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more



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



Earth's Composition Crossword Puzzle

15 - Term Crossword

Includes 2 Versions

- Version 1 - No Word Bank
- Version 2 - Includes a Word Bank




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




Plate Tectonics Lab Station Activity




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

Earth's Composition and Tectonic Plates 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



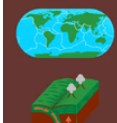


Tectonic Plates Word Search and Scramble

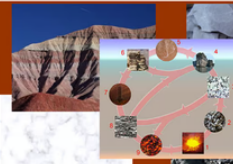
15 - Term Crossword

Includes 2 Versions

- Version 1 - No Word Bank
- Version 2 - Includes a Word Bank




The Rock Cycle Lab Station Activity



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

Earthquakes and Volcanoes Lab Station Activity




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

Tectonic Plates Word Search and Scramble

15 - Term Crossword

Includes 2 Versions

- Version 1 - No Word Bank
- Version 2 - Includes a Word Bank




Weather and Climate 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




Earthquakes Scientific Reading Comprehension Article



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

Shifting Grounds - A Journey of Resilience



Story Prompt

Earth's Seasons Lab Station Activity



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

Daily Teaching Schedule

UNIT Earth Science 25 DAYS TOTAL

Earth's Composition – 3 days

Number of Day(s)	Course Content	Teaching Resources	NGSS
1	- Earth's Layers - The Inner Core - The Outer Core - Planet Formation - Earth's Magnetic Field - The Mantle - The Crust - The Asthenosphere and Lithosphere - Oceanic Crust - Tectonic Plates Introduction	Earth's Composition - Lesson	HS-ESS1-6 HS-ESS2-1
1	Review activity	Earth's Composition Crossword Puzzle Act	
1	Review activity	Science Story Prompt -Earth Science- Shift Grounds - A Journey of Resilience	
Assessments	There are multiple assessments included throughout this unit portion.		

Plate Tectonics – 4 days

Number of Day(s)	Course Content	Teaching Resources
2	- Earth's Layers - The Plate Tectonic Theory - Earth's Primary & Secondary Plates - Continental Drift - The Changing Earth - Plate Boundaries - Divergent, Convergent, & Transform Boundary	Tectonic Plates - Lesson
1	Ha	
1	Re	
Assessments	Th	

Earthquakes, Volcanoes, and Tsunamis – 5 days

Number of Day(s)	Course Content	Teaching Resources	NGSS
2	- Earthquakes - Tectonic Plates, Boundaries, and Seismic Waves - The Great Chilean Earthquake - Volcanoes - Types of Volcanoes - Volcano Dangers - Mount Tambora - Tsunamis - Social and Environmental Impact of Tsunamis	Earthquakes, Volcanoes, and Tsunamis - Lesson	
1	Hands-on review activity	Earthquakes and Volcanoes - Lab Station Activity	
1	Review activity	Earthquakes and Volcanoes – A Digital Scavenger Hunt Activity	
1	Review activity	Earthquakes - A Science Reading Article	
Assessments	There are multiple assessments included throughout this unit portion.		

Rock Cycle – 4 days

Number of Day(s)	Course Content	Teaching Resources	NGSS
1		Rock Types and the Rock Cycle - Earth Science - Lesson	HS-ESS2-1 HS-ESS2-3 HS-ESS2-5 HS-ESS3-1
1		The Rock Cycle - Lab Station Activity	
1		The Rock Cycle – A Digital Scavenger Hunt Activity	
1		The Rock Cycle Word Search and Scramble Activity	
Assessments	ed throughout this unit portion.		

Weather and Climate – 5 days

Number of Day(s)	Course Content	Teaching Resources	NGSS
1	- Weather vs. Climate - The Effect of Latitude on Climate - The Effect of Altitude on Climate - The Effect of Land Distribution on Climate - The Effect of Large Bodies of Water on Climate - The Coriolis Effect and Climate - Trade Winds - The Effect of Ocean Circulation on Climate	Regional Climates Lesson - Lesson	HS-ESS2-2 HS-ESS2-4 HS-ESS2-5 HS-ESS3-1 HS-ESS3-5
1	- Extreme Weather - Supercells - Supercell tornadoes - Multi-vortex tornadoes - Tornado Formation - Non-Supercells - Waterspouts - Dust Devils - Fire Whirls - Characteristics - Damage and the Fujita Scale - Where do they form? - How to be prepared and stay safe	Tornadoes - Extreme Weather Lesson	
1	- The Troposphere - What Causes Weather? - The Hydrosphere - Effects of Water Bodies on Weather - Oceans and Weather - Lakes and Weather	Water and Weather - Lesson	
1	Review activity	How Weather Works - Reading Article	
1	Review activity	Weather and Climate Word Search and Scr Activity	
Assessments	There are multiple assessments included throughout this unit portion.		

Seasons – 4 days

Number of Day(s)	Course Content	Teaching Resources	NGSS
2	- Earth's Rotation, Tilt & Revolution - Direct vs. Indirect Sunlight - The Seasons	The Seasons and Earth's Tilt Lesson - Lesson	HS-ESS1-4 HS-ESS2-4
1	Hands-on review activity	Earth's Seasons - 7 Engaging Lab Stations	
1	Hands-on review activity	The Seasons - Digital Scavenger Hunt Activity	
Assessments	There are multiple assessments included throughout this unit portion. UNIT TEST		

Who's It For?

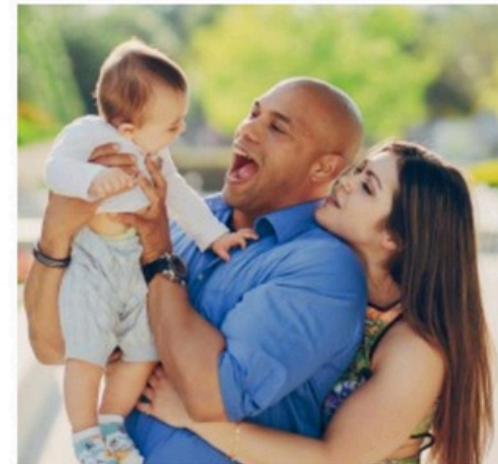
- **High School Physical Science Teachers**
- **Teachers using NGSS**
- **Teachers who want to increase their student's engagement and retention**
- **Teachers not looking to reinvent the wheel**

Save yourself the **STRESS AND TIME**



TWF

Spend your time WISELY



TWF