

Earth and Space

Earth Unit



Lesson 1 - Earth and its Place in the Universe

Lesson 2 - Measuring Time on Earth

Lesson 3 - Earth's Revolution, Tilt, and Seasons

Lesson 4 - Earth's Origins - How We Got Here

Lesson 5 - Climate Change

Lesson 6 - Earth's Composition

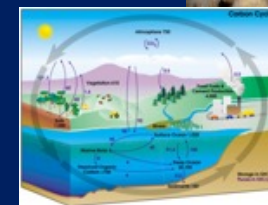
Lesson 7 - Tectonic Plates

Lesson 8 - Earthquakes, Volcanoes, and Tsunamis

Lesson 9 - Sediments

Lesson 10 - Erosion, Weathering, and Deposition

Lesson 11 - Caves and Cave Formation



Office and Google Versions

- This unit includes both Office and Google formats for ALL resources
- The lessons are in PowerPoint and Google Slides format while all documents contain Word and Google Doc versions
- Your resource is perfect for distance learning and integrates seamlessly with Google Classroom as I've included a link that will automatically create a copy of the resources and put them directly into your Google Drive with one click



Included Lessons



Earth and its Place in the Universe

- Earth and our Solar System
- The Milky Way
- The Local Group
- Superclusters
- Earth's Orbit
- Galactic Spin
- How Earth's Motion Impacts Us



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

Measuring Time on Earth

- What is Time?
- The Sun
- The Seasons
- The Moon
- Why do we use 24 Hours?
- Sidereal and Synodic Time
- Earth's Revolution
- A Solar Day
- A Year on Earth
- Atomic Clocks
- Time is Relative



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Earth's Revolution, Tilt, and Seasons

- Kepler
- Earth's Elliptical Path
- Earth's Motion Around the Sun
- The Seasons
- Earth's Tilt
- Earth's Revolution
- Equinox
- Perihelion and Aphelion



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Earth's Origins - How We Got Here

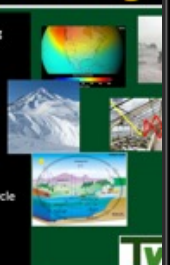
- In The Beginning
- Nucleosynthesis
- The Circle of Life
- Historical Timeline
- The Creation of Earth
- Angular Momentum
- Protoplanetary Disk
- Nebular Hypothesis
- Earth's Shape and Dimensions



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Climate Change and Global Warming

- Climate Change vs. Global Warming
- Weather vs. Climate
- Air Convection Currents
- Earth's Climate System
- The Ozone Layer
- The Greenhouse Effect
- Greenhouse Gases
- Greenhouse Gas Emissions
- Global Warming and the Carbon Cycle
- Carbon Sinks
- Effects of Global Warming
- Historical Climate Change



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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



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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



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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



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Sediments

- What Sediments Are
- How Sediment is Produced
- The Three Main Types of Sediment
 - Detrital
 - Rocks
 - Chemical
 - Halite, Gypsum, and Calcite
 - Biochemical
 - Limestone, Coal, Chert



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Erosion, Weathering, and Deposition

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



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Caves and Cave Formation

- Cave Definition
- Speleology
- Cave Formation
- Stratigraphy and Stratum
- Stalactites, Stalagmites, and Columns

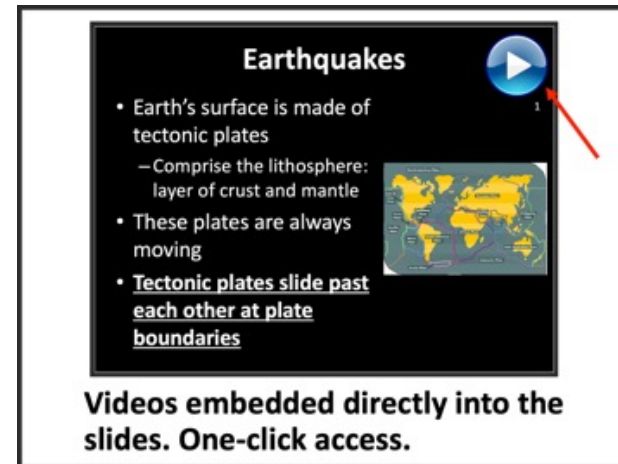
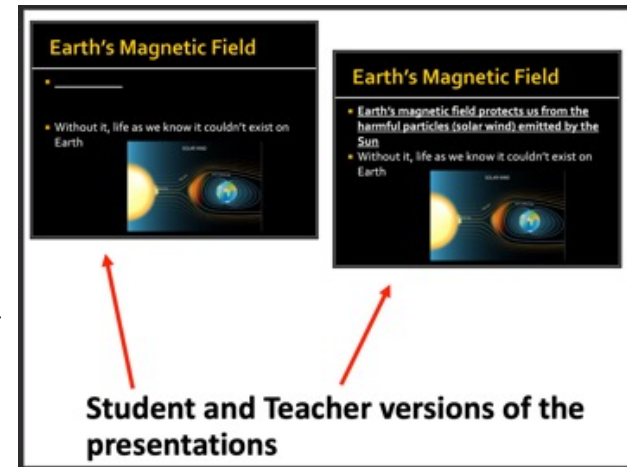


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Thank you for your interest

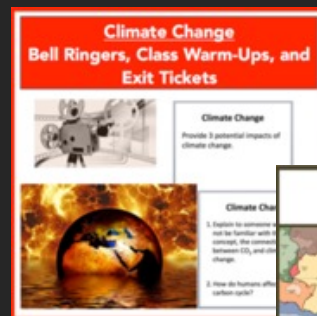
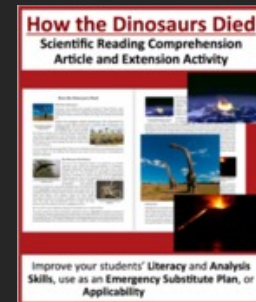
Inside the Unit

- 5 weeks of teaching material
- 11 Presentations in Google and Office versions
- Teacher and student versions for each lesson
- Many videos embedded into the slides



Activities and Assessments

- 1 Unit Test and 2 Quizzes
- 2 Digital Scavenger Hunts
- 3 Reading Comprehension Articles
- 3 Lab Station Activities
- Additional activities to engage your students



Thank you for your interest

If you have any questions, please feel free to reach out.

As a thank you for coming this far, I'd like to offer you a free resource from collection.

Just copy and paste the following link into your browser →

<https://teachsciencewithfergy.com/thank-you-resources/>

