

Earth Science Core

Unit 1: What Is Earth Science?

Lesson 1.1: Thinking Like a Scientist

- 1.1.1: Study - The Layers of Earth Science Duration: 1 hr
- 1.1.2: Study - The Scientific Method Duration: 1 hr
- 1.1.3: Discuss - That Is My Specialty Duration: 30 min ____ / 25
- 1.1.4: Quiz - Working in Science Duration: 30 min ____ / 50

Lesson 1.2: Discovering Planet Earth

- 1.2.1: Study - A Global View Duration: 1 hr
- 1.2.2: Lab - Determining Longitude and Latitude Duration: 1 hr 30 min ____ / 50
- 1.2.3: Study - Maps and More Duration: 1 hr
- 1.2.4: Quiz - Do You Know Your Earth? Duration: 30 min ____ / 50
- 1.2.5: Lab - Using a Topographic Map to Create a Landform Duration: 1 hr 30 min ____ / 50

Lesson 1.3: Concepts in Earth Science

- 1.3.1: Study - Equilibrium and Convection Duration: 1 hr
- 1.3.2: Study - Cycling through the Conservation of Matter and Energy Duration: 1 hr
- 1.3.3: Quiz - Big Earth, Big Concepts Duration: 30 min ____ / 50

Lesson 1.4: What Is Earth Science? Wrap Up

- 1.4.1: Review - What Is Earth Science? Duration: 2 hrs
- 1.4.2: Test (CST) - What Is Earth Science? Duration: 15 min ____ / 30
- 1.4.3: Test (TST) - What Is Earth Science? Duration: 45 min ____ / 70

Lesson 1.5: Diagnostic

- 1.5.1: Diag - What Is Earth Science? Duration: 45 min ____ / 30

Unit 2: Where Is Earth?

Lesson 2.1: The Universe

- 2.1.1: Study - The Big Bang Theory Duration: 1 hr
- 2.1.2: Study - Galaxies Duration: 30 min
- 2.1.3: Study - Star Life Cycles Duration: 1 hr
- 2.1.4: Quiz - Matter Formation Duration: 30 min ____ / 50
- 2.1.5: Practice - Everything in the Universe Duration: 1 hr ____ / 50

Lesson 2.2: Solar System Formation

- 2.2.1: Study - Planet Formation Duration: 30 min
- 2.2.2: Study - Comets and Asteroid Belts Duration: 30 min
- 2.2.3: Lab - Exploring Orbits Duration: 1 hr 30 min ____ / 50
- 2.2.4: Quiz - How Did Planets Form? Duration: 30 min ____ / 50

Lesson 2.3: Our Neighborhood

- 2.3.1: Study - Here Comes the Sun Duration: 30 min
- 2.3.2: Study - The Inner, Rocky Planets Duration: 1 hr
- 2.3.3: Quiz - The Solar System So Far Duration: 30 min ____ / 50
- 2.3.4: Study - The Gas Giants and Pluto Duration: 1 hr
- 2.3.5: Quiz - The Rest of the Solar System Duration: 30 min ____ / 50
- 2.3.6: Journal - Choose a Planet Duration: 30 min ____ / 15

Lesson 2.4: Planet Earth

- 2.4.1: Study - The Moving Earth Duration: 1 hr
- 2.4.2: Practice - Stopping the Revolution Duration: 1 hr ____ / 50
- 2.4.3: Study - The Living Planet Duration: 30 min
- 2.4.4: Study - The Moon Duration: 1 hr
- 2.4.5: Quiz - The Earth and Moon System Duration: 30 min ____ / 50
- 2.4.6: Discuss - Are We Alone? Duration: 30 min ____ / 25

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Lesson 2.5: Where Is Earth? Wrap-Up
<input type="checkbox"/> 2.5.1: Review - Where Is Earth? Duration: 1 hr 30 min
<input type="checkbox"/> 2.5.2: Test (CST) - Where Is Earth? Duration: 15 min ____ / 30
<input type="checkbox"/> 2.5.3: Test (TST) - Where Is Earth? Duration: 45 min ____ / 70
Lesson 2.6: Diagnostic
<input type="checkbox"/> 2.6.1: Diag - Where Is Earth? Duration: 45 min ____ / 30
Unit 3: Earth's Water
Lesson 3.1: The Blue Planet
<input type="checkbox"/> 3.1.1: Study - Water, Water Everywhere Duration: 30 min
<input type="checkbox"/> 3.1.2: Practice - Water World Duration: 1 hr ____ / 50
<input type="checkbox"/> 3.1.3: Quiz - What Do You Know about Water? Duration: 30 min ____ / 50
Lesson 3.2: Getting Fresh
<input type="checkbox"/> 3.2.1: Study - Fresh Water Duration: 1 hr
<input type="checkbox"/> 3.2.2: Study - You're Grounded Duration: 30 min
<input type="checkbox"/> 3.2.3: Quiz - Different Bodies of Water Duration: 30 min ____ / 50
<input type="checkbox"/> 3.2.4: Discuss - Make a Big Splash Duration: 30 min ____ / 25
<input type="checkbox"/> 3.2.5: Journal - Your Water Diet Duration: 30 min ____ / 15
Lesson 3.3: The Oceans
<input type="checkbox"/> 3.3.1: Study - An Oceanographic Voyage Duration: 1 hr
<input type="checkbox"/> 3.3.2: Lab - How Does Temperature Affect Water Density? Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 3.3.3: Study - The Ocean in Motion Duration: 1 hr
<input type="checkbox"/> 3.3.4: Study - Wild World Weather Duration: 30 min
<input type="checkbox"/> 3.3.5: Quiz - Earth's Oceans Duration: 30 min ____ / 50
Lesson 3.4: Earth's Water Wrap-Up
<input type="checkbox"/> 3.4.1: Review - Earth's Water Duration: 1 hr 30 min
<input type="checkbox"/> 3.4.2: Test (CST) - Earth's Water Duration: 15 min ____ / 30
<input type="checkbox"/> 3.4.3: Test (TST) - Earth's Water Duration: 45 min ____ / 70
Lesson 3.5: Diagnostic
<input type="checkbox"/> 3.5.1: Diag - Earth's Water Duration: 45 min ____ / 30
Unit 4: Earth's Atmosphere
Lesson 4.1: The Sky's the Limit
<input type="checkbox"/> 4.1.1: Study - Layers of the Atmosphere Duration: 1 hr
<input type="checkbox"/> 4.1.2: Quiz - Know Your Layers Duration: 30 min ____ / 50
<input type="checkbox"/> 4.1.3: Discuss - What about This Ozone? Duration: 30 min ____ / 25
<input type="checkbox"/> 4.1.4: Practice - Up, Up, and Away Duration: 1 hr ____ / 50
<input type="checkbox"/> 4.1.5: Lab - Determining How Temperature Changes w/ Altitude Duration: 1 hr 30 min ____ / 50
Lesson 4.2: Cycles in the Atmosphere
<input type="checkbox"/> 4.2.1: Study - Carbon and Nitrogen Duration: 1 hr
<input type="checkbox"/> 4.2.2: Study - Taking the Heat Duration: 1 hr
<input type="checkbox"/> 4.2.3: Lab - Investigating Factors that Control Temperature Duration: 1 hr ____ / 50
<input type="checkbox"/> 4.2.4: Quiz - Air Head Duration: 30 min ____ / 50
Lesson 4.3: The Windy Planet
<input type="checkbox"/> 4.3.1: Study - Why the Wind Blows Duration: 1 hr
<input type="checkbox"/> 4.3.2: Study - Which Way the Wind Blows Duration: 1 hr
<input type="checkbox"/> 4.3.3: Quiz - Do You Know about Currents? Duration: 30 min ____ / 50
Lesson 4.4: Earth's Atmosphere Wrap-Up
<input type="checkbox"/> 4.4.1: Review - Earth's Atmosphere Duration: 1 hr 30 min

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<input type="checkbox"/> 4.4.2: Test (CST) - Earth's Atmosphere Duration: 15 min ____ / 30
<input type="checkbox"/> 4.4.3: Test (TST) - Earth's Atmosphere Duration: 45 min ____ / 70
Lesson 4.5: Diagnostic
<input type="checkbox"/> 4.5.1: Diag - Earth's Atmosphere Duration: 45 min ____ / 30
Unit 5: Weather and Climate
Lesson 5.1: How's the Weather?
<input type="checkbox"/> 5.1.1: Study - Weather or Not Duration: 1 hr
<input type="checkbox"/> 5.1.2: Study - In the Clouds Duration: 45 min
<input type="checkbox"/> 5.1.3: Study - Going to Extremes Duration: 1 hr
<input type="checkbox"/> 5.1.4: Lab - Analyzing Severe Weather Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 5.1.5: Quiz - Get in Front Duration: 30 min ____ / 50
Lesson 5.2: In the Forecast
<input type="checkbox"/> 5.2.1: Study - Instruments and Measurements Duration: 1 hr
<input type="checkbox"/> 5.2.2: Lab - Measuring Humidity Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 5.2.3: Study - Weather Maps Duration: 1 hr
<input type="checkbox"/> 5.2.4: Study - Making and Faking the Forecast Duration: 1 hr
<input type="checkbox"/> 5.2.5: Discuss - Rain Dance Duration: 30 min ____ / 25
<input type="checkbox"/> 5.2.6: Quiz - Assess the Forecast Duration: 30 min ____ / 50
Lesson 5.3: Climate
<input type="checkbox"/> 5.3.1: Study - Climate Time Duration: 1 hr
<input type="checkbox"/> 5.3.2: Quiz - Climate Climb Duration: 30 min ____ / 50
Lesson 5.4: Weather and Climate Wrap-Up
<input type="checkbox"/> 5.4.1: Review - Weather and Climate Duration: 1 hr 30 min
<input type="checkbox"/> 5.4.2: Test (CST) - Weather and Climate Duration: 15 min ____ / 30
<input type="checkbox"/> 5.4.3: Test (TST) - Weather and Climate Duration: 45 min ____ / 70
Lesson 5.5: Diagnostic
<input type="checkbox"/> 5.5.1: Diag - Weather and Climate Duration: 45 min ____ / 30
Unit 6: Semester Review and Exam
Lesson 6.1: Earth Science Semester 1
<input type="checkbox"/> 6.1.1: Review - Earth Science Semester 1 Duration: 3 hrs 30 mins
<input type="checkbox"/> 6.1.2: Exam - Earth Science Semester 1 Duration: 40 min ____ / 80
<input type="checkbox"/> 6.1.3: Final Exam - Earth Science Semester 1 Duration: 1 hr 20 min ____ / 120
Unit 7: Laying the Groundwork
Lesson 7.1: Earth's Layers
<input type="checkbox"/> 7.1.1: Study - The Door to the Core Duration: 1 hr
<input type="checkbox"/> 7.1.2: Study - The Mantle and Crust Duration: 45 min
<input type="checkbox"/> 7.1.3: Practice - Digging Deep Duration: 1 hr ____ / 50
<input type="checkbox"/> 7.1.4: Discuss - Journey to the Center of Earth Duration: 30 min ____ / 25
<input type="checkbox"/> 7.1.5: Quiz - Earth's Layers Duration: 30 min ____ / 50
Lesson 7.2: Earth's Magnetism
<input type="checkbox"/> 7.2.1: Study - A Magnetic Personality Duration: 1 hr
<input type="checkbox"/> 7.2.2: Practice - Taming the Compass Duration: 1 hr ____ / 50
<input type="checkbox"/> 7.2.3: Quiz - Magnetic Fields Duration: 30 min ____ / 50
Lesson 7.3: It Is Deeply Moving
<input type="checkbox"/> 7.3.1: Study - Plate Tectonics Duration: 1 hr
<input type="checkbox"/> 7.3.2: Practice - Chronic Tectonics Duration: 1 hr ____ / 50
<input type="checkbox"/> 7.3.3: Study - Whose Fault Is It Anyway? Duration: 45 min

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<input type="checkbox"/> 7.3.4: Quiz - Fault Assault Duration: 30 min ____ / 50
Lesson 7.4: Laying the Groundwork Wrap-Up
<input type="checkbox"/> 7.4.1: Review - Laying the Groundwork Duration: 2 hrs
<input type="checkbox"/> 7.4.2: Test (CST) - Laying the Groundwork Duration: 15 min ____ / 30
<input type="checkbox"/> 7.4.3: Test (TST) - Laying the Groundwork Duration: 45 min ____ / 70
Lesson 7.5: Diagnostic
<input type="checkbox"/> 7.5.1: Diag - Laying the Groundwork Duration: 45 min ____ / 30
Unit 8: The Movers and Shakers
Lesson 8.1: Mountains to Trenches
<input type="checkbox"/> 8.1.1: Study - Ocean Commotion Duration: 1 hr
<input type="checkbox"/> 8.1.2: Study - Ain't No Mountain High Enough Duration: 1 hr
<input type="checkbox"/> 8.1.3: Quiz - Feature Creep Duration: 30 min ____ / 50
<input type="checkbox"/> 8.1.4: Lab - Modeling a Plate Boundary Duration: 1 hr 30 min ____ / 50
Lesson 8.2: Creaks and Hazards
<input type="checkbox"/> 8.2.1: Study - In a Volcanic Panic Duration: 1 hr
<input type="checkbox"/> 8.2.2: Practice - The Yellowstone Supervolcano Duration: 1 hr ____ / 60
<input type="checkbox"/> 8.2.3: Study - Brake for Quakes Duration: 1 hr
<input type="checkbox"/> 8.2.4: Quiz - Cracking Up Duration: 30 min ____ / 50
Lesson 8.3: Sculpting Earth
<input type="checkbox"/> 8.3.1: Study - Down and Dirty Duration: 45 min
<input type="checkbox"/> 8.3.2: Study - Karst Topography Duration: 1 hr
<input type="checkbox"/> 8.3.3: Study - At a Glacial Pace Duration: 1 hr
<input type="checkbox"/> 8.3.4: Lab - Continental Glaciers Change Earth's Topography Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 8.3.5: Quiz - Wasting Away Duration: 30 min ____ / 50
Lesson 8.4: The Movers and Shakers Wrap-Up
<input type="checkbox"/> 8.4.1: Review - The Movers and Shakers Duration: 1 hr 30 min
<input type="checkbox"/> 8.4.2: Test (CST) - The Movers and Shakers Duration: 15 min ____ / 30
<input type="checkbox"/> 8.4.3: Test (TST) - The Movers and Shakers Duration: 45 min ____ / 70
Lesson 8.5: Diagnostic
<input type="checkbox"/> 8.5.1: Diag - The Movers and Shakers Duration: 45 min ____ / 30
Unit 9: Minerals and Rocks
Lesson 9.1: Minerals
<input type="checkbox"/> 9.1.1: Study - Mining for Minerals Duration: 1 hr
<input type="checkbox"/> 9.1.2: Study - Identifying Minerals Duration: 30 min
<input type="checkbox"/> 9.1.3: Lab - Mineral Identification Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 9.1.4: Quiz - Mineral Logic Duration: 30 min ____ / 50
Lesson 9.2: Igneous Rocks
<input type="checkbox"/> 9.2.1: Study - Cool, Magma Duration: 1 hr
<input type="checkbox"/> 9.2.2: Study - Fire Up Your Skill Duration: 30 min
<input type="checkbox"/> 9.2.3: Quiz - Igneous Success Duration: 30 min ____ / 50
Lesson 9.3: Sedimentary Rocks
<input type="checkbox"/> 9.3.1: Study - From Particles to Rock Duration: 1 hr
<input type="checkbox"/> 9.3.2: Study - An Assortment of Sediments Duration: 30 min
<input type="checkbox"/> 9.3.3: Quiz - Sedimentary? It's Elementary! Duration: 1 hr ____ / 50
Lesson 9.4: Metamorphic Rocks
<input type="checkbox"/> 9.4.1: Study - Ch-Ch-Changes Duration: 1 hr
<input type="checkbox"/> 9.4.2: Study - Arranging Changes Duration: 30 min

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<input type="checkbox"/> 9.4.3: Quiz – Metamorphism Duration: 30 min ____ / 50
Lesson 9.5: The Rock Cycle
<input type="checkbox"/> 9.5.1: Study - Rocky Road Duration: 30 min
<input type="checkbox"/> 9.5.2: Discuss - Rock the Rock Cycle Duration: 30 min ____ /25
<input type="checkbox"/> 9.5.3: Practice - Rock Steady Duration: 1 hr ____ / 50
<input type="checkbox"/> 9.5.4: Lab - Classifying Rocks Using a Key Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 9.5.5: Quiz - Rock It Duration: 30 min ____ / 50
Lesson 9.6: Minerals and Rocks Wrap-Up
<input type="checkbox"/> 9.6.1: Review - Minerals and Rocks Duration: 1 hr 30 min
<input type="checkbox"/> 9.6.2: Test (CST) - Minerals and Rocks Duration: 15 min ____ / 30
<input type="checkbox"/> 9.6.3: Test (TST) - Minerals and Rocks Duration: 45 min ____ / 70
Lesson 9.7: Diagnostic
<input type="checkbox"/> 9.7.1: Diag - Minerals and Rocks Duration: 45 min ____ / 30
Unit 10: All the Time in the World
Lesson 10.1: Measuring Time
<input type="checkbox"/> 10.1.1: Study - Just in Time Duration: 45 min
<input type="checkbox"/> 10.1.2: Study - Telling Time Duration: 1 hr
<input type="checkbox"/> 10.1.3: Lab - Determining Geologic Ages Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 10.1.4: Study - The Docile Fossil Duration: 1 hr
<input type="checkbox"/> 10.1.5: Quiz - Keeping Time Duration: 30 min ____ / 50
Lesson 10.2: The Past Is Vast
<input type="checkbox"/> 10.2.1: Study - Older Than Dirt Duration: 1 hr
<input type="checkbox"/> 10.2.2: Study - Living History Duration: 1 hr
<input type="checkbox"/> 10.2.3: Quiz - Gone But Not Forgotten Duration: 30 min ____ / 50
Lesson 10.3: No Time Like the Present
<input type="checkbox"/> 10.3.1: Discuss - On the Brink Duration: 30 min ____ / 25
<input type="checkbox"/> 10.3.2: Study - Now Means Now Duration: 1 hr
<input type="checkbox"/> 10.3.3: Quiz - Quick! Cenozoic! Duration: 30 min ____ / 50
Lesson 10.4: All the Time in the World Wrap-Up
<input type="checkbox"/> 10.4.1: Review - All the Time in the World Duration: 1 hr 30 min
<input type="checkbox"/> 10.4.2: Test (CST) - All the Time in the World Duration: 15 min ____ / 30
<input type="checkbox"/> 10.4.3: Test (TST) - All the Time in the World Duration: 45 min ____ / 70
Lesson 10.5: Diagnostic
<input type="checkbox"/> 10.5.1: Diag - All the Time in the World Duration: 45 min ____ / 30
Unit 11: Earth's Resources
Lesson 11.1: What Fuels You?
<input type="checkbox"/> 11.1.1: Study - Energy Expertise Duration: 1 hr
<input type="checkbox"/> 11.1.2: Quiz - Energy Bill Duration: 30 min ____ / 50
<input type="checkbox"/> 11.1.3: Journal – Bigfoot Duration: 1 hr ____ / 15
Lesson 11.2: Use It and Lose It
<input type="checkbox"/> 11.2.1: Study - Take It to the Limit Duration: 45 min
<input type="checkbox"/> 11.2.2: Quiz - Sustained! Duration: 30 min ____ /50
<input type="checkbox"/> 11.2.3: Discuss - The Buzz Duration: 30 min ____ / 25
Lesson 11.3: Earth Matters
<input type="checkbox"/> 11.3.1: Lab - Human Impact on Climate and Weather Duration: 1 hr 30 min ____ / 50
<input type="checkbox"/> 11.3.2: Study - Earth Matters Duration: 1 hr
<input type="checkbox"/> 11.3.3: Practice - Environmental Journalism Duration: 1 hr ____ / 50

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<input type="checkbox"/> 11.3.4: Quiz - Testing the Environment Duration: 30 min ____ / 50
Lesson 11.4: Earth's Resources Wrap-Up
<input type="checkbox"/> 11.4.1: Review - Earth's Resources Duration: 1 hr 30 min
<input type="checkbox"/> 11.4.2: Test (CST) - Earth's Resources Duration: 15 min ____ / 30
<input type="checkbox"/> 11.4.3: Test (TST) - Earth's Resources Duration: 45 min ____ / 70
Lesson 11.5: Diagnostic
<input type="checkbox"/> 11.5.1: Diag - Earth's Resources Duration: 45 min ____ / 30
Unit 12: Semester Review and Exam
Lesson 12.1: Earth Science Semester 2
<input type="checkbox"/> 12.1.1: Review - Earth Science Semester 2 Duration: 4 hrs
<input type="checkbox"/> 12.1.2: Exam - Earth Science Semester 2 Duration: 40 min ____ / 80
<input type="checkbox"/> 12.1.3: Exam - Earth Science Semester 2 Duration: 1 hr 20 ____ / 120