EARTH SCIENCE
35-WEEK SCHEDULE, LEVEL B

WEEK 1
INTRODUCTION

Class 1: Introduction to Earth Science

Class 2: Creation

Class 3: Chronogenealogies

Activity: Family Tree

Class 4: Observation and Interpretation

Activity: Observation and Interpretation

WEEK 2
WORLDVIEWS

Class 5: Introduction to Worldviews

Activity: Observation and Interpretation

Class 6: Worldviews and Science

Class 6.1: More About Worldviews and Science

Class 7: Interpretation: The Age of the Universe

WEEK 3
GEOLOGY

Class 8: Introduction to Geology

Class 9: Earth's Structure

Activity: World Map

Class 10: Layers of the Earth

Activity: Earth Model

Class 10.1: Layers of the Earth Detail, Part 1

Class 10.2: Layers of the Earth Detail, Part 2

WEEK 4
GEOLOGY

Class 11: Rocks and Minerals

Class 11.1: More About Minerals

Class 12: Types of Rocks and Weathering

Class 13: Erosion and Sedimentary Rock

Class 14: Erosion and the Age of the Earth

**Level B-only classes are indicated by a decimal place, ex. Class 6.1.*

WEEK 5
GEOLOGY & GLACIERS

Class 14.1: Creation and Sedimentation

Class 14.2: Naturalism and Sedimentation

Class 15: Igneous and Metamorphic Rock

Activity: Rock Chart

Class 16: Erosion and Glaciers

Class 17: More About Glaciers

WEEK 6
GLACIERS

Class 17.1: Two Types of Glaciers

Class 18: How Glaciers Change the Earth

Class 19: Evidence of Glaciers, Part 1

Class 20: Evidence of Glaciers, Part 2

Activity: Model Glacier

Class 20.1: More Glacial Features

WEEK 7
PLATE TECTONICS

Class 21: Introduction to Plate Tectonics

Class 22: Plates in the Bible, Part 1

Class 23: Plates in the Bible, Part 2

Class 24: Summary of Plates in the Bible

WEEK 8
PLATE TECTONICS

Class 25: What Did the Earth Look Like Before the Flood?, Part 1

Class 26: What Did the Earth Look Like Before the Flood?, Part 2

Class 26.1: Catastrophic Plate Tectonics

Class 27: Plate Tectonics and Fossils

WEEK 9
EARTHQUAKES

Class 28: Introduction to Earthquakes

Class 29: What Causes Earthquakes

Class 29.1: Types of Boundaries

Class 30: Measuring an Earthquake, The Mercalli Scale

Class 31: Measuring an Earthquake, The Richter Scale

WEEK 10
EARTHQUAKES & VOLCANOES

Class 31.1: More Earthquake-Related Terms and Events

Class 32: Earthquake Safety

Class 33: Introduction to Volcanoes

Class 34: Basics of Volcano Formation

Class 35: More About Volcanoes

WEEK 11
VOLCANOES

Class 35.1: How Volcanism Can Form Islands

Class 35.2: How Divergent Plates Form Volcanoes

Class 36: Intraplate Volcanism

Class 37: Volcanic Activity: Not Just Lava!

Class 38: Volcanic Activity: Pyroclastic Material

Activity: Pyroclastic Material Display

WEEK 12
VOLCANOES

Class 39: Volcanic Activity: Lava

Class 39.1: Different Kinds of Lava, Part 1

Class 39.2: Different Kinds of Lava, Part 2

Class 40: Introduction to Types of Volcanoes

Class 41: Volcanoes: Craters and Calderas

WEEK 13
VOLCANOES

Class 42: Types of Volcanoes: Composite (Stratovolcano)

Class 42.1: Other Volcanic Features

Class 43: Famous Volcanoes

Class 44: Volcanoes Through Creation and Naturalism Lenses

Activity: Baking Soda & Vinegar Volcano

WEEK 14
PALEONTOLOGY

Class 45: Paleontology . . . It Begins

Class 46: For Better Understanding: The Naturalism Timeline

Class 47: What is a Fossil?

Class 48: Altered and Unaltered Fossils, Part 1

WEEK 15
PALEONTOLOGY

Class 49: Altered and Unaltered Fossils, Part 2

Class 49.1: Unaltered Fossil Sidetrack

Class 50: Altered and Unaltered Fossils, Part 3

Class 51: Altered and Unaltered Fossils, Episode IV

Activity: Making Fossils

Class 52: Dinosaur "Bones"

WEEK 16
PALEONTOLOGY & OCEANOGRAPHY

Class 52.1: Permineralization

Class 52.2: Carbonization

Class 53: Introduction to Oceanography

Class 54: Latitude and Longitude

Class 55: Latitude and Longitude in More Detail, Part 1

WEEK 17
OCEANOGRAPHY

Class 56: Latitude and Longitude in More Detail, Part 2

Class 57: Latitude and Longitude in More Detail, Part 3

Activity: Using Latitude and Longitude

Class 57.1: How We Figured Out Latitude and Longitude, Part 1

Class 57.2: How We Figured Out Latitude and Longitude, Part 2

Class 58: Introduction to the Oceans

WEEK 18
OCEANOGRAPHY

Class 59: The Salt in Seawater

Class 60: Where Ocean Salt Comes From

Activity (Level A): Salt Concentration

Class 60.1: Salinity, Part 1

Class 60.2: Salinity, Part 2

Class 60.3: Salinity, Part 3

Activity (Level B): Salt Concentration

WEEK 19
OCEANOGRAPHY

Class 61: How Much Water is There, Even?

Class 62: Ocean Basin Anatomy

Activity: Ocean Basin Model

Class 62.1: Ocean Basin Anatomy: Scaling

Class 62.2: Active and Passive Continental Margins

Class 63: SONAR and Oceanography

WEEK 20
OCEANOGRAPHY

Class 64: Bathymetry

Class 65: Ocean Floor Topography: Plains and Seamounts

Class 66: Ocean Floor Topography: Mid-Ocean Ridge System and Hydrothermal Vents

Activity (Level A): Ocean Basin Model: Topographic Features

Class 66.1: Ocean Floor Topography: Reefs, Guyots and Trenches

Activity (Level B): Ocean Basin Model: Topographic Features

WEEK 21
OCEANOGRAPHY

Class 67: Introduction to Ocean Zones

Activity: Ocean Basin Model: Photic Zones

Class 68: Ocean Zones in More Depth

Class 69: Food Chains

Class 70: Energy Transfers

Activity: Your Food Chain

Class 70.1: Chemosynthesis

WEEK 22
OCEANOGRAPHY

Class 71: More Ways the Oceans Support Life

Activity: Experiments in Dissolving

Class 72: Ocean Temperatures

Class 73: Water Pressure

Class 73.1: Decompression Sickness, Part 1

WEEK 23
OCEANOGRAPHY

Class 73.2: Decompression Sickness, Part 2

Class 73.3: Decompression Sickness, Part 3

Class 74: Introduction to Ocean Currents

Class 75: History of Ocean Currents, Part 1

Class 76: History of Ocean Currents, Part 2

WEEK 24
OCEANOGRAPHY

Class 77: What Causes Surface Currents

Activity: How Wind Forms Currents

Class 78: More About Surface Currents and Wind

Class 79: The Coriolis Effect

Class 80: Ocean Gyres

Class 80.1: Ocean Gyres and Their Boundaries

WEEK 25
OCEANOGRAPHY

Class 80.2: More Detail About Surface Currents

Class 81: The Antarctic Circumpolar Current

Class 82: The Equatorial Countercurrents

Class 83: Introduction to Deep-Water Currents

Class 84: How Deep-Water Currents Form

Activity: Behavior of Cold, Dense Water

WEEK 26
OCEANOGRAPHY

Class 85: The Paths of the Deep-Water Currents

Class 85.1: A Few More Facts About Currents

Class 86: Introduction to Surface Waves

Class 87: How Surface Waves Move

Activity: Wind and Wave Journal

Class 87.1: Surface Wave Movement Detail 1

WEEK 27
OCEANOGRAPHY

Class 87.2: Surface Wave Movement Detail 2

Class 88: How Surface Waves Change, Part 1

Class 89: How Surface Waves Change, Part 2

Class 90: How Surface Waves Change, Part 3

WEEK 28
OCEANOGRAPHY

Class 91: Surface Waves Cause Weathering and Erosion

Class 91.1: More Surface Wave Weathering and Erosion

Class 92: Introduction to Tides

Class 93: Gravity: A Massive Subject, Part 1

Class 94: Gravity: A Massive Subject, Part 2

WEEK 29
OCEANOGRAPHY & LIMNOLOGY

Class 95: Gravity and Tides

Class 96: Introduction to Limnology

Class 97: Freshwater Systems

Class 98: How Water Moves in a Watershed

WEEK 30
LIMNOLOGY

Class 99: How Rivers and Streams Move Sediments

Class 100: Following a Flowing River

Activity (Level A): Drawing a Drainage Basin

Class 100.1: River Features: The Upper Course

Class 100.2: River Features: The Middle & Lower Course

Activity (Level B): Drawing a Drainage Basin

Class 101: Floodplains and Levees

WEEK 31
METEOROLOGY

Class 102: Introduction to Meteorology

Class 103: Layers of the Atmosphere in Detail

Activity: Atmospheric Pressure

Class 104: Introduction to Clouds

Activity: Condensation

Class 105: Basic Types of Clouds

WEEK 32
METEOROLOGY

Class 106: Convection

Class 107: Cumulonimbus Cloud Formation

Class 108: Thunderstorms and Lightning

Class 109: Thunder, Hail and Tornadoes

Class 109.1: A Bit More About Cumulonimbus Clouds

WEEK 33
METEOROLOGY

Class 110: Introduction to Hurricanes

Class 111: Hurricane Anatomy and Damage

Class 112: Predicting the Weather

Class 113: The Climate

Activity: Local Weather and Climate

WEEK 34
CLIMATE CHANGE

Class 114: The Climate and Critical Thinking, Part 1

Class 115: The Climate and Critical Thinking, Part 2

Class 116: The Climate and Critical Thinking, Part 3

Class 117: The Climate and Critical Thinking, Part 4

Class 118: The Climate and Critical Thinking, Part 5

WEEK 35
ENERGY & DOMINION

Class 119: Energy

Class 120: Making Electricity

Class 121: Dominion