



Switched-On™
ONLINE

2009-2010 Curriculum Catalog

Earth Science

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AOP comes complete with a full, multimedia-enriched curriculum for grades 3—12 in five core subjects and electives.

This course catalog covers the following course:

- Earth Science

Thanks for choosing us!

Glynlyon Curriculum Development Team

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Monday – Friday 7:00 am to 7:00 pm (CT)

Earth Science

Unit 1

Assignment Title
1. Introduction to Earth Science
2. Project: Research a Career
3. A Unique Planet
4. Project: Earth Comparisons
5. Quiz 1: Introduction to Earth Science
6. Layers of the Earth
7. Project: Building a Model of the Earth
8. Continental Drift
9. Plate Tectonics
10. Project: Mantle Convection
11. Plate Boundaries
12. Project: Plate Boundaries
13. Quiz 2: Earth's Dynamic Internal Structure
14. The Spheres of Earth
15. Project: Sphere Interaction Lab
16. Geochemical Cycles: Cycles of Earth Materials
17. Biogeochemical Cycles: Cycles of Life Materials
18. Flow of Energy in Ecosystems
19. Project: Flow of Energy
20. Quiz 3: Earth's Dynamic External Structure
21. Special Project
22. Review
23. Test
24. Alternate Test

Unit 2

Assignment Title
1. Force of Earthquakes
2. Measuring The Force of Earthquakes
3. Features of Earthquakes
4. Project: Earthquake Features Lab
5. Quiz 1: Earthquakes
6. Force of Volcanoes
7. Impact of Volcanoes
8. Prediction of Volcanoes
9. Features of Volcanoes
10. Project: Volcanic Features Lab
11. Quiz 2: Volcanoes
12. Using Geologic Maps
13. Using Topographic Maps
14. Project: Mapping
15. Quiz 3: Identifying Features of Earth
16. Special Project
17. Review
18. Test
19. Alternate Test

Unit 3

Assignment Title
1. Minerals
2. Project: Crystal Systems
3. Mineral Identification
4. Project: Identifying a Mineral
5. Quiz 1
6. Igneous Rocks
7. Sedimentary Rocks
8. Metamorphic Rocks
9. The Rock Cycle
10. Project: Identifying a Rock
11. Quiz 2
12. Renewable Resources
13. Nonrenewable Resources
14. Project: Nuclear Energy
15. Quiz 3
16. Special Project
17. Review
18. Test
19. Alternate Test

Earth Science (cont.)

Unit 4

Assignment Title
1. Weathering
2. Erosion
3. Soil Formation
4. Project: Soil Particles
5. Quiz 1: Shaping the Surface
6. Rivers and Waves
7. Gravity and Glaciers
8. Project: Ice Erosion
9. Wind
10. Quiz 2: Weathering and Erosion
11. Destructive Forces
12. Constructive Forces
13. Quiz 3: Destructive and Constructive Forces
14. Special Project
15. Review
16. Test
17. Alternate Test

Unit 5

Assignment Title
1. Review (1)
2. Review (2)
3. Exam
4. Alternate Exam

Unit 6

Assignment Title
1. The Water Cycle
2. Project: Water Purification
3. Water Basics
4. Water Distribution
5. Project: Water Conservation
6. Quiz 1
7. Groundwater
8. Experiment: Porosity and Permeability
9. Lakes and Rivers
10. Glaciers and Ice Caps
11. Quiz 2
12. Ocean Water
13. Experiment: Fresh Water vs. Saltwater
14. Waves and Tides
15. Currents
16. Quiz 3
17. Special Project
18. Review
19. Test
20. Alternate Test

Unit 7

Assignment Title
1. Importance of the Atmosphere
2. Structure of the Atmosphere
3. Project: Layers of the Atmosphere
4. Quiz 1: The Atmosphere
5. Atmospheric Cycles
6. Solar Interaction
7. Project: Solar Energy
8. Alternate Project: Temperature
9. Air Pressure and Winds
10. Project: Air Circulation
11. Alternate Project: Barometers
12. Quiz 2: Earth-Sun Relationships
13. Air Pollution
14. Project: Greenhouse Effect
15. Quiz 3: Human Relationship
16. Special Project
17. Review
18. Test
19. Alternate Test

Unit 8

Assignment Title
1. Weather and Climate
2. Project: Weather or Climate?
3. Clouds and Precipitation
4. Project: Clouds and Weather
5. Project: Clouds and Rain
6. Air Masses and Fronts
7. Quiz 1: Weather Factors of the Sky
8. Solar Power
9. Project: Control the Weather
10. Geographical Effects
11. Climate Regulation and Change
12. Project: Research Your Climate
13. Quiz 2: Causes of Weather and Climate
14. Weird Weather
15. Measuring Weather
16. Project: Predict the Weather
17. Quiz 3: Predicting Weather
18. Special Project
19. Review
20. Test
21. Alternate Test

Earth Science (cont.)

Unit 9

dAssignment Title
1. Earth's Place in the Solar System
2. Project: Scale of the Solar System
3. Planetary Motion
4. Ability To Orbit
5. Project: Newton's Law
6. Earth's Motion, Seasons, and Moon
7. Quiz 1: Solar System
8. Characteristics of Stars
9. Structure of the Sun
10. Galaxies
11. Project: Identifying Galaxies
12. Quiz 2: Stars and Galaxies
13. Special Project
14. Review
15. Test
16. Alternate Test

Unit 10

Assignment Title
1. Review (1)
2. Review (2)
3. Exam
4. Alternate Exam