



Switched-On™
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2009-2010 Curriculum Catalog

Science 400

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

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- Science 400

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Glynlyon Curriculum Development Team

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Science 400

Unit 1

Assignment Title
1. Plant Life
2. Plants Used As Food and Shelter
3. Project: Things Made of Wood
4. Report: Read and Write
5. Plants Used For Enjoyment and Symbols
6. Report: Flowers as State Symbols
7. Report: Flower Paragraph
8. Quiz 1
9. Parts of Plants
10. How Plant Parts Function
11. Experiment: Celery
12. How Plant Parts Function (Part 2)
13. How Plant Parts Function (Part 3)
14. Quiz 2
15. Special Project
16. Review Game
17. TEST
18. ALTERNATE TEST

Unit 2

Assignment Title
1. How Animals are Structured
2. Whales
3. Report: Types of Whales
4. Birds
5. Reptiles and Fish
6. Report: Writing about Fish
7. Project: Observing Fish
8. How Animals Eat and Digest Food
9. How Animals Breathe
10. Quiz 1
11. How Animals Act: Mammals
12. How Animals Act: Salmon
13. How Animals Act: Birds
14. How Animals Act: Insects
15. Report: Honeybee Habits
16. Quiz 2
17. Animal Instinct
18. Man Protects Animals
19. Project: Animal Scrapbook
20. Quiz 3
21. Special Project
22. Review Game
23. TEST
24. ALTERNATE TEST

Unit 3

Assignment Title
1. Ecology
2. Project: Your Environment
3. Resources
4. Food Chains
5. Ecosystem Populations
6. Project: Populations
7. Balance of Nature
8. Project: Make a Pyramid
9. Report: Rabbits in Australia
10. Quiz 1
11. Water Communities
12. Experiment: Still Water Life
13. Land Communities
14. Project: Human Communities
15. Report: Read and Write
16. Project: Terrarium or Diorama
17. Report: Forest Community
18. Quiz 2
19. Misuse of the Environment
20. Project: Ask an Expert
21. Report: Endangered Species
22. Resource Conservation
23. Report: How to Save Energy
24. Environmental Preservation
25. Report: Special Treasures
26. Quiz 3
27. Special Project
28. Review Game
29. TEST
30. ALTERNATE TEST

Science 400 (cont.)**Unit 4**

Assignment Title
1. Machines Are Needed: Work
2. Report: Galileo
3. Experiment: Gravity
4. Machines Are Needed: Energy
5. Quiz 1
6. Simple Machines: Lever
7. Experiment: Hammer and Nail
8. Experiment: Seesaw
9. Simple Machines: Inclined Plane
10. Experiment: Inclined Plane
11. Simple Machines: Wedge and Screw
12. Experiment: Screw and Nail
13. Simple Machines: Wheel and Axle
14. Simple Machines: Pulleys
15. Experiment: Pulleys
16. Quiz 2
17. Compound Machines
18. Quiz 3
19. Special Project
20. Review Game
21. TEST
22. ALTERNATE TEST

Unit 5

Assignment Title
1. Electricity
2. Report: Thomas Edison
3. Experiment: Static Electricity
4. Currents and Circuits
5. Project: Conductors
6. Experiment: Wet Cell
7. Project: Electric Objects
8. Electrical Use and Safety
9. Project: Fuses in Use
10. Quiz 1
11. Magnetism
12. Experiment: Use a Magnet
13. Experiment: Make a Magnet
14. Experiment: Magnet Poles
15. Experiment: Testing a Magnet
16. Experiment: Generate Electricity
17. Experiment: Electromagnet
18. Report: Explorers
19. Quiz 2
20. Special Project
21. Review Game
22. TEST
23. ALTERNATE TEST

Unit 6

Assignment Title
1. Water
2. Experiment: Ice
3. Experiment: Ice Volume
4. Water as a Liquid
5. Experiment: Potato
6. Water as a Gas
7. Experiment: Forming Dew
8. Water as a Solvent
9. Experiment: Solubility
10. Quiz 1
11. Matter
12. Molecules and Atoms
13. Experiment: Molecules
14. Elements
15. Quiz 2
16. Special Project
17. Review Game
18. TEST
19. ALTERNATE TEST

Unit 7

Assignment Title
1. The Atmosphere
2. Experiment: Air and Space
3. Temperature
4. Experiment: Temperature
5. Air Pressure
6. Experiment: Pressure
7. Quiz 1
8. Forces of Weather
9. Sand and Dust Storms
10. Report: Hurricanes
11. Quiz 2
12. Prediction of Weather
13. Project: Thermometers
14. Quiz 3
15. Special Project
16. Review Game
17. TEST
18. ALTERNATE TEST

Science 400 (cont.)

Unit 8

Assignment Title
1. A Trip Through Space
2. Our Big Universe
3. Report: Astronomy Instruments
4. Essay: Astronomy
5. Quiz 1
6. The Sun
7. Essay: Ancient People
8. Movements
9. Report: Isaac Newton
10. Heavenly Bodies Around the Sun
11. Our Moon
12. Experiment: Moon Phases
13. Quiz 2
14. The Stars and Space
15. Essay: Astrology
16. The Milky Way and Other Galaxies
17. Quiz 3
18. Special Project
19. Review Game
20. TEST
21. ALTERNATE TEST

Unit 10

Assignment Title
1. Review: The Solar System
2. Review: The Earth
3. Quiz 1
4. Review: Matter
5. Review: Water
6. Review: Weather
7. Project: Weather Scrapbook
8. Quiz 2
9. Review: Electricity and Magnetism
10. Project: Thomas Alva Edison
11. Review: Machines
12. Quiz 3
13. Review: Ecology
14. Review: Conservation
15. Report: Passenger Pigeon
16. Quiz 4
17. Special Project
18. Review Game
19. TEST
20. ALTERNATE TEST

Unit 9

Assignment Title
1. The Air (Atmosphere)
2. Experiment: Condensation
3. Gases in the Atmosphere
4. Quiz 1
5. The Water (Hydrosphere)
6. Essay: Psalm 147
7. Salt Water
8. Experiment: Currents
9. Quiz 2
10. The Land (Lithosphere)
11. Experiment: Shadows
12. Earth's Land Formations
13. Earth's Rotation and Revolution
14. Quiz 3
15. Special Project
16. Review Game
17. TEST
18. ALTERNATE TEST