

# Curriculum Catalog

Science 400

### Welcome to Switched-On Schoolhouse!

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Switched-On Schoolhouse comes complete with a full, multimedia-rich curriculum for grades 3-12 in five core subjects and electives.

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Alpha Omega Publications Curriculum Development Team

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# Table of Contents - Science 400

UNIT 1: PLANTS	1
UNIT 2: ANIMALS	
UNIT 3: MAN AND HIS ENVIRONMENT	
UNIT 4: MACHINES	
UNIT 5: ELECTRICITY AND MAGNETISM	2
UNIT 6: WATER AND MATTER	
UNIT 7: WEATHER	
UNIT 8: OUR SOLAR SYSTEM AND THE UNIVERSE	
UNIT 9: THE PLANET EARTH	
UNIT 10: UNDERSTANDING GOD'S WONDERFUL CREATION	

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

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

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

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

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# Science 400 (cont.)

#### **UNIT 5: ELECTRICITY AND MAGNETISM** Assignment Titles 13. Experiment: Make a Magnet 1. Electricity Report: Thomas Edison Experiment: Static Electricity 14. Experiment: Magnet Poles15. Experiment: Testing a Magnet 4. Currents and Circuits5. Project: Conductors 16. Experiment: Generate Electricity 17. Experiment: Electromagnet 6. Experiment: Wet Cell 7. Project: Electric Objects 18. Report: Explorers 19. Quiz 2 8. Electrical Use and Safety 20. Special Project 9. Project: Fuses in Use 21. Review Game 10. Quiz 1 22. TEST 11. Magnetism 23. ALTERNATE TEST 12. Experiment: Use a Magnet

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

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

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

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

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

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