

Curriculum Catalog

Science 500

Welcome to Switched-On Schoolhouse!

We are excited that you are including Switched-On Schoolhouse as part of your program of instruction, and we look forward to serving you and your students.

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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Table of Contents - Science 500

JNIT 1: CELLS	1
JNIT 2: LIFE CYCLES	
JNIT 3: ANIMALS: LIFE CYCLES	1
JNIT 4: BALANCE IN NATURE	
JNIT 5: TRANSFORMATION OF ENERGY	1
JNIT 6: RECORDS IN THE ROCK: THE FLOOD	2
JNIT 7: RECORDS IN THE ROCK: FOSSILS	
JNIT 8: RECORDS IN ROCKS: GEOLOGY	2
JNIT 9: CYCLES IN NATURE	2
JNIT 10: LOOK AHEAD	

UNIT 1: CELLS		
	Assignment Titles	
The Basic Unit of Living Things: A Cell	11. Tissue	
2. Viewing Cells	12. Quiz 2	
3. Experiment: Skin Cells	13. Cells: Energy and Growth of Cells	
4. Quiz 1	14. Cell Reproduction	
5. The Life and Activity of Cells	15. Quiz 3	
Plants and Unicellular Organisms	16. Special Project	
7. Experiment: Onion Cells	17. Review Game	
8. Experiment: Pond Water Examination	18. TEST	
9. Experiment: Cheek Cells	19. ALTERNATE TEST	
10. Experiment: Blood Cells		

UNIT 2: LIFE CYCLES				
	Assignment Titles			
Classifying Living Things and Plants	13. Spore Bearing Plants and Fungi			
2. Parts of Plants	14. Fern Plants			
3. Quiz 1	15. Report: Walking Fern			
Seed Bearing Plants	16. Fungi			
5. Flowering Plants	17. Experiment: Mold			
Experiment: Flower Dissection	18. Quiz 3			
7. Fertilization	19. One-celled Living Things			
Experiment: Seed Dissection	20. Quiz 4			
Cone-Bearing Plants	21. Special Project			
10. Project: Examining Cones	22. Review Game			
11. Project: Seed Hunt	23. TEST			
12. Quiz 2	24. ALTERNATE TEST			

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UNIT 3: ANIMALS: LIFE CYCLES					
Assignment Titles					
Invertebrates: Life Cycles	12. Egg-Laying Vertebrates (Part 2)				
One-celled Animal-like Protists	13. Egg-Laying Vertebrates (Part 3)				
Report: Protozoa	14. Experiment: Chicken Egg				
Egg-Laying Invertebrates	15. Live-Bearing Vertebrates				
5. Experiment: Mealworm	16. Report: Mammals				
6. Report: The Spider	17. Essay: God and Animals				
7. Report: Insect Study	18. Quiz 2				
8. Worms and Mollusks	19. Special Project				
9. Quiz 1	20. Review Game				
10. Vertebrates: Life Cycles	21. TEST				
11. Egg-Laying Vertebrates	22. ALTERNATE TEST				

UNIT 4: BALANCE IN NATURE				
Assignment Titles				
Balance of Nature: Physical Environment	11. Project: Prairie Food Chain			
2. Project: Cycles	12. Project: Special Environments			
3. Ecosystems	13. Quiz 2			
Project: Terrarium Project	14. Humans and the Web of Life			
5. Quiz 1	15. Humans and the Web of Life (Part 2)			
6. The Prairie: Web of Life	16. Quiz 3			
7. Project: Prairie Land	17. Special Project			
8. The Prairie: Web of Life (Part 2)	18. Review Game			
9. Report: Prairie Birds	19. TEST			
10. The Prairie: Food Chains	20. ALTERNATE TEST			

UNIT 5: TRANSFORMATION OF ENERGY				
Assignment Titles				
1. Energy 10. Quiz 2	2			
2. Work 11. Energ	y in the Future			
3. Quiz 1	Sources of Energy			
4. Work From Energy 13. Exper	iment: Solar Energy for Heat			
5. Experiment: Heat From the Sun 14. Quiz 3	3			
6. Forms of Energy 15. Speci	al Project			
7. Experiment: Heat from Bending 16. Revie	w Game			
8. Experiment: Heat Energy from a Chemical Reaction 17. TEST				
9. Chemical Energy 18. ALTE	RNATE TEST			

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UNIT 6: RECORDS IN THE ROCK: THE FLOOD

Assignment Title

1. Before the Flood: The Bible Record 2. Before the Flood: The Physical Record

3. Quiz 1

4. The Flood: The Bible Record 5. Project: Interview with Noah 6. The Flood: The Physical Record

7. Report: Ancient Flood Stories

8. Quiz 2

9. After the Flood: The Bible Record 10. After the Flood: The Physical Record

11. Quiz 3

12. Special Project 13. Review Game

14. TEST

15. ALTERNATE TEST

UNIT 7: RECORDS IN THE ROCK: FOSSILS

1. Fossil Formation

2. Project: Mold Fossil Copy 3. Project: Cast Fossil Copy 4. Fossil Formation Part 2 5. Fossil Locations

6. Quiz 1

7. Reading Fossils: Identification 8. Reading Fossils: Earth's Age 9. Project: Plant and Animal Fossils

10. Reading Fossils: Difficulties

Assignment Title
11. Project: Fossil Clues

12. Reading Fossils: Reconstruction 13. Project: Label the Skeleton 14. Project: Be Creative

15. Quiz 2

16. Special Project 17. Review Game **18. TEST**

19. ALTERNATE TEST

UNIT 8: RECORDS IN ROCKS: GEOLOGY

Assignment Title

1. Features of the Earth 11. Experiment: Erosion

2. Project: Compare an Orange and the Earth 12. Causes of Surface Change 3. Layers of the Earth 13. Earthquakes and Volcanoes 4. Rocks on the Earth's Surface 14. Project: Volcano Summary

5. Project: Examine a Mineral 15. Results of Forces

6. Kinds of Rocks 16. Quiz 2 7. Report: Rocks 17. Special Project 8. Project: Rock Hunt 18. Review Game

9. Quiz 1 19. TEST 10. Changes in the Earth: Surface Change 20. ALTERNATE TEST

UNIT 9: CYCLES IN NATURE

Assignment Title

1. Properties of Matter 13. Project: Globe

2. Properties of Matter (Part 2) 14. Comets 3. Experiment: Volume 15. Report: Famous Comets

4. Changes in Matter 16. Life 5. Experiment: Water Container 17. Experiment: Water Evaporation

6. Experiment: Types of Changes 18. Quiz 2 19. God's Order 7. Conservation of Matter

8. Experiment: Conservation of Matter 20. Quiz 3

9. Structure of Matter 21. Special Project 22. Review Game 10. Quiz 1 11. The Four Seasons 23. TEST

12. The Cause of Seasons 24. ALTERNATE TEST

UNIT 10: LOOK AHEAD

Assignment Title

1. Living Things: Plants, Fungi, Protists, and Monerans 2. Living Things: Animal and Animal-Life Protists 10. Energy and Work

3. Living Things: Balance of Nature

4. Quiz 1 5. The Earth: Records of Life

6. The Earth: Fossils 7. The Earth: Records in Rock

8. Quiz 2

9. Order in Creation

11. Matter 12. Quiz 3

13. Special Project 14. Review Game

15. TEST

16. ALTERNATE TEST

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