

Daily Lesson Plans for Apologia™
Exploring Creation Series

Exploring Creation **with** **General Science** Third Edition

Developed by

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Exploring Creation with General Science, Third Edition

Apologia has earned the reputation of being the premier science course for college-bound students. The text is written in a friendly, conversational style and is easy to understand, even for parents with minimal science background. The simple experiments, user-friendly format, and personal approach set it apart from standard textbooks. The program is written from a Christian worldview and takes a balanced approach toward controversial subjects, examining all viewpoints while explaining the scientific facts behind differing theories.

Apologia science courses appeal to both parents/teachers and students because they are easy to understand, practical, and organized. They also encourage critical thinking skills in an interesting format. We are so confident in this science course that it is the only one we carry for 7th grade.

Sherri Seligson is a 21-year veteran homeschool mom of 4 children, a degreed marine biologist, researcher, wife, and Christian. Sherri has worked as a marine biologist at Walt Disney World's Living Seas, publishing shark behavior research. Also, she is the author of Apologia's *Exploring Creation with General Science* and *Exploring Creation with Marine Biology*. Sherri uses transparency, truth, and humor, to teach students the importance and excitement of studying God's creation.

How to Use These Plans

Before beginning this course, parents need to read thoroughly the **BEFORE YOU BEGIN** section in the front of *Solutions and Tests for Exploring Creation with General Science, 3rd Edition*. Students need to read thoroughly these notes. (Note that the word "lab" refers to the experiments in the text.) Parents may want to read these notes with their child to ensure the student understands how to use these plans on a daily basis.

Schedule science four days a week. Monday through Thursday works best, with Friday free or used for catch-up or review. If you find that a lesson is too lengthy, simply end the lesson and resume the following day. By Friday you should catch up with the week's lessons.

Plan to spend two-and-a-half weeks on each module, which gives 34 weeks for science. With science scheduled four days per week, each module will take 10 days to complete. The test following each module will fall on a Tuesday or a Thursday with this method. The last module, "Science and Creation," has no test, but has a final fun project building a Rube Goldberg machine. This module could be considered optional, thus shortening the course to 33 weeks, if the student is pressed for time.

For record-keeping purposes, use the line to the left of "Day 1," "Day 2," etc., to write the date the student completes each lesson. There are 137 days of science scheduled for the year.

A "Test Scores" sheet is provided so that all test scores can be recorded in one place for a permanent record. Read the paragraph on page ix in *Solutions and Tests for Exploring Creation with General Science, 3rd Edition* regarding grading.

How to Use The Textbook

To help the student there are two types of exercises in the textbook. **On Your Own** questions should be answered as the student encounters them in the textbook. The act of answering these questions will help in mastering the concepts being studied. The answers to On Your Own questions are at the end of each module. Answers should be checked and reviewed immediately after finishing the On Your Own exercise. At the end of each module is a **Study Guide** to help prepare for the module test. The day that the Study Guide is assigned, the student's answers should be checked and the student should review the corrected Study Guide in preparation for the test.

At the end of each module, there is a **Test**. The student should be allowed to have only pencil and paper while taking the test.

In the student text, words that appear in **Blue**, boldface type, are centered in the text. The student should memorize or summarize these definitions in preparation for the test. Words that appear in **Black**, boldface type, should be understood, but not memorized.

During the first few modules, there will be **What To Do** instructional sections. These contain information that will teach the student, in a step-by-step manner, how to complete lab reports, study guides, tests, and more.

There are two types of activities in each module. **Experiments** are designed to demonstrate and explore the concepts which the student is studying. We suggest that the student selects one of the experiments per module and write a lab report for that experiment. A lab report is a brief summary of what the student did and what was learned from the experiment. For each of the other experiments, the student should write one or two sentences explaining the major concept learned.

The other type of activity is the **Explore More** section. These exercises provide a hands-on way to further explore a concept. These activities are optional and are not assigned in the lesson plans.

Throughout the textbook and the solutions manual, there will be references to a "required" **Student Notebook**. My Father's World recommends using any blank notebook for composing lab reports, summaries, answering questions, and taking notes. However, this student notebook is available through Apologia, if you like.

Lab Supplies

For your convenience we have compiled a master list of all the lab supplies needed for the entire year. (See "Master List: Lab Supplies to Purchase for the Year" in these lesson plans.) The master list does not include items commonly found at home, such as a sink, microwave, etc., nor does it list perishable grocery items. We recommend that you purchase all of these supplies now, before beginning the school year, so that they will be on hand.

If you prefer to purchase supplies as needed, we also list the lab supplies for the module at the beginning of each new module in the plan. The lab supply list for each module does include items commonly found at home. Review the lab supply list and gather any additional lab supplies at the beginning of each module.

Master List: Lab Supplies to Purchase for the Year

Note: The Master List does not include items commonly found at home, such as a sink, microwave, etc., nor does it list perishable grocery items.

Cleaning Supplies

- aluminum foil
- cups: clear plastic
- matches in matchbox
- paper lunch bags
- paper plates: large and small
- paper towels
- parchment baking paper or waxed paper
- plastic wrap
- straws
- toilet paper rolls: 2
- toothpicks
- zipper-seal quart bags

Craft

- candle: medium-height candle that can fit in the medium glass container with room for a flame
- candle: short candle on a stand
- candle: tea light
- clay
- craft foam: black and white
- fabric: black
- fabric: white
- iron shavings
- leaf press or (old books and waxed paper)
- pipe cleaners: 2 long, stiff pipe cleaners
- plaster of Paris
- sand
- seashell
- styrofoam ball
- X-ACTO craft knife

Grocery (non-perishable)

- alum (sold as Aluminum Alum)
- baking soda
- beans, white navy: small bag of dry beans
- chocolate pudding (milk chocolate)
- cornstarch
- distilled water
- dried herbs (parsley, oregano, or basil)
- food coloring
- Graham Crackers
- Gummy Bears: 4 different colors
- ingredients to make chocolate chip cookies using two different brands of chocolate chips
- licorice: black with hollow centers

Test and Experiment Scores
Exploring Creation with General Science

Name _____

	Date	Score	Parent Initial
MODULE 1			
Experiment 1.1	_____	_____	_____
Experiment 1.2	_____	_____	_____
Test	_____	_____	_____
MODULE 2			
Experiment 2.1	_____	_____	_____
Experiment 2.2	_____	_____	_____
Experiment 2.3	_____	_____	_____
Test	_____	_____	_____
MODULE 3			
Experiment 3.1	_____	_____	_____
Experiment 3.2	_____	_____	_____
Experiment 3.3	_____	_____	_____
Test	_____	_____	_____
MODULE 4			
Experiment 4.1	_____	_____	_____
Test	_____	_____	_____
MODULE 5			
Experiment 5.1	_____	_____	_____
Experiment 5.2	_____	_____	_____
Test	_____	_____	_____
MODULE 6			
Experiment 6.1	_____	_____	_____
Experiment 6.2	_____	_____	_____
Test	_____	_____	_____
MODULE 7			
Experiment 7.1	_____	_____	_____
Experiment 7.2	_____	_____	_____
Test	_____	_____	_____
MODULE 8			
Experiment 8.1	_____	_____	_____
Experiment 8.2	_____	_____	_____
Test	_____	_____	_____

Module 4: Scientific Analysis and History

- Look at the lab supplies list for Module 4. Purchase any needed supplies.
- Also look at the lab supplies list for Module 5. Plan to purchase any supplies you do not already have.

Lab Supplies for Module 4

- lab notebook
- tree slice image (Figure 4.15) on page 103

- _____ Day 31 • Read pages 87-89, Module 4, *Scientific Analysis and History*, from the beginning of page 87 to the end of “ON YOUR OWN” on page 89.
 • Complete “ON YOUR OWN” problems 4.1-4.2.
- _____ Day 32 • Read pages 89-92, from the beginning of ARCHAEOLOGY on page 89 to the beginning of “THE INTERNAL TEST” on page 92.
 • Complete “ON YOUR OWN” problem 4.3.
- _____ Day 33 • Read pages 92-95, from the beginning of “THE INTERNAL TEST” on page 92 to the end of “ON YOUR OWN” on page 95.
 • Complete “ON YOUR OWN” problem 4.4.
- _____ Day 34 • Read pages 95-97, from the beginning of “THE EXTERNAL TEST” on page 95 to the end of page 97.
 • Complete “ON YOUR OWN” problem 4.5.
- _____ Day 35 • Read pages 98-101, from the beginning of page 98 to the beginning of “AGE TESTING AND DENDROCHRONOLOGY” on page 101.
 • Complete “ON YOUR OWN” problem 4.6.
- _____ Day 36 • Read pages 101-104, from the beginning of “AGE TESTING AND DENDRO-
 CHRONOLOGY” on page 101 to the end of “EXPLORE MORE” on page 104.
 • Complete EXPERIMENT 4.1.
 • Enter Experiment score on the Test and Experiment Scores Form.
- _____ Day 37 • Read pages 104-106, from the beginning of “AGE TESTING AND RADIO-
 METRIC DATING” on page 104 to the end of “ON YOUR OWN” on page 106.
 • Complete “ON YOUR OWN” problem 4.7.
- _____ Day 38 • Read pages 106-108, from the beginning of “RELATIVE DATING AND THE
 PRINCIPLE OF SUPERPOSITION” on page 106 to the end of page 108.
 • Complete “ON YOUR OWN” problems 4.8-4.9.
- _____ Day 39 • Complete the questions in the Study Guide for Module 4 on pages 111-112 and
 prepare for the test.

_____ Day 40

- Take the test for Module 4.
- Enter Test score on the Test and Experiment Scores Form.

Sample