

# Kolbe Academy Home School

## GRADE TWO SCIENCE *Science and Living in God's World, Level 2*

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**COURSE TITLE:** Science

**COURSE TEXT:** *Science and Living in God's World*, Level 2, Lepanto Press 1956  
*Science and Living in God's World*, Level 2, Answer Key, Optional  
*Science Experiments*, Kolbe Academy Press, 2000, Optional

**COURSE DESCRIPTION:**

Observation of physical phenomena is the essential aspect of Grade Two science. Emphasis should be on the experiments in the book and those provided in the course plan as supplemental material. The teacher's edition, which is relatively inexpensive, can be very helpful in filling out the lessons. The most important part of teaching science in the early years is helping the student see the wonders of God's world, and making him unafraid of the subject when he gets into serious science in later years. Children learn more from doing experiments than they do from books. It is recommended that you obtain Kolbe's science experiment book, *Mr. Wizard*, or any other science experiment book to use in conjunction with *Science and Living in God's World*. Science, like history, does not need to be done every day and can be set aside if the student is being challenged by the basics in other subjects.

**COURSE OBJECTIVES:**

This course is a continuation of the work of the first grade in the further development of the scientific skills necessary to apply the scientific method:

- ❖ naming the hypothesis
- ❖ venturing an educated guess
- ❖ making distinctions between true and false statements
- ❖ writing down the data involved in the experiment
- ❖ duplicating and at times even tripling the experiment to assure oneself of the results
- ❖ keeping accurate notes of the results or effects of the experiments

**SCOPE AND SEQUENCE:**

**Quarter 1**

- Animals depend on plants for food

**Quarter 2**

- Insects live in the yard and woods
- Rocks and soil

**Quarter 3**

- The sun
- Plants produce and scatter seeds

**Quarter 4**

- Travel

**SKILLS TO BE DEVELOPED:**

This course should develop the student's ability to:

- ❖ observe and report
- ❖ keep accurate notes
- ❖ analyze accurately
- ❖ measure with precision
- ❖ observe and describe subtle differences
- ❖ predict with reasonable accuracy

**COURSE PLAN METHODOLOGY:**

Kolbe Academy has worked diligently to create the best possible course plans with the home schooling family in mind. Remember, however, that our program is intended to be flexible. Per the principle of subsidiarity, these course plans are a **suggested** course of study. As the teacher, you should adapt and modify these course plans to meet the individual learning needs of your child. **Do not feel obligated to follow these course plans exactly.**

*Science and Living in God's World, Level 2* is represented by the abbreviation **SLGW**. Each weekly assignment is summarized in the first rows of the week's daily course plan along with the goals and notes for that week. The specific daily assignments are outlined in the following lines indicated by the **DAY 1** and **DAY 2** abbreviations. Parent daily guidelines are given to the left of the student assignments. Most families will use Days 1 and 2 as a Monday/Wednesday or Tuesday/Thursday schooling schedule, alternating with Geography. This leaves Friday open for review, catch-up, field trips, or other activities. A family's schedule can and should vary as needed.

A weekly grade book is included at the end of the week's course plan *as a convenience*. It includes a cumulative list of written assignments from the week's course plan with point values given as a suggestion. Space for additional assignments, if needed, is included. **Kolbe Academy does not require that you keep record of all student work.** If you intend to report your child's work to Kolbe Academy for an official report card, only one sample of written and graded work is required per quarter for each course along with a report card submission. Parents should use the grade book only as a help to their home schooling and not as hindrance. Point values and weighting are suggested for *convenience* and may be modified, dropped completely, or added to as the parent deems fit. Please consult the welcome packet for a full tutorial on using the grade book.

This science course contains 36 weeks broken into four 9-week quarters. Week 8 is considered a review week and week 9 is dedicated strictly to examination. Your student may not need all of Week 8 for review. You can use this time to catch up if necessary and then go over the subject matter. **If you intend to use the tests provided, look them over before teaching the subjects and make sure you teach the material in the tests.** Some children have a difficult time doing written exams, but it is important for them to learn how to take them. If your second grader does poorly on them, give them to him orally a couple of days after he has taken them and average the grades.

Finally, begin every class with a prayer. This is a good way to help the child memorize new prayers. Repeat the same ones every day until they are known. Be sure to explain the meanings of the prayers. Repetition in all areas of study is most beneficial.

◆◆◆ FIRST QUARTER ◆◆◆

WEEK 1				
Book	Weekly Breakdown	Goals and Notes for the Week		
SLGW	Pages 9-11	All animals depend on plants for food.		
Notes				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	SLGW Read pages 9-11	<input type="checkbox"/>	Read and discuss pages 9-11 with the student. Have the student make a list of the different plants that are native to your area.	
	Make a list of plants in your area	<input type="checkbox"/>		
DAY 2	Write in science notebook	<input type="checkbox"/>	Start a science notebook in which the student writes about the experiments he does. Have the student write a paragraph about the plants in the list from Day 1. The parent may want to check out the quarterly exam to ensure the student is writing about the most important facts. The notebook can be used to study for the exam at the end of the quarter.	
Week 1 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Plant list	<input type="checkbox"/>			
Science notebook assignment	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
<b>Week 1 Average</b>	<b>Add up column C &amp; divide by number of included <input checked="" type="checkbox"/> assignments =</b>			<b>%</b>

◆ COURSE PLAN ◆

WEEK 2					
Book	Weekly Breakdown	Goals and Notes for the Week			
SLGW	Pages 12-17 Page 36	Different kinds of plants. Experiments with plants.			
<div style="border: 1px solid black; padding: 5px; min-height: 100px;">                     Notes                 </div>					
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines		
DAY 1	SLGW Read pages 12-17	<input type="checkbox"/>	Read and discuss pages 12-17. Begin the first two experiments on page 36, if possible. If there is no rain, continue with that part as soon as it rains.		
	Begin first two experiments listed on page 36	<input type="checkbox"/>			
DAY 2	Write experimental results in notebook	<input type="checkbox"/>	Check the experiment(s) begun on Day 1. Write down the results in the notebook.		
Week 2 Grade Book					
Assignments		Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Science experiment results		<input type="checkbox"/>			
Other:		<input type="checkbox"/>			
Other:		<input type="checkbox"/>			
<b>Week 2 Average</b>		<b>Add up column C &amp; divide by number of included <input checked="" type="checkbox"/> assignments =</b>			<b>%</b>

◆ COURSE PLAN ◆

WEEK 3				
Book	Weekly Breakdown	Goals and Notes for the Week		
SLGW	Pages 18-23 Page 36	Parts of plants and how plants make food. Experiments with plants.		
Notes				
Student Daily Assignments		<input checked="" type="checkbox"/>	Parent Daily Guidelines	
DAY 1	SLGW Read pages 18-20	<input type="checkbox"/>	Read and discuss pages 18-20 with the student. Begin the experiment with beans on page 36.	
	Begin bean experiment on page 36	<input type="checkbox"/>		
DAY 2	SLGW Read pages 21-23	<input type="checkbox"/>	Read and discuss pages 21-23, first paragraph only, with the student. Check all experiments and continue to do what is necessary to complete them. Write down the results in the notebook.	
	Write experimental results in notebook	<input type="checkbox"/>		
Week 3 Grade Book				
Assignments	Include <input checked="" type="checkbox"/>	(A) Points Earned	(B) Possible Points	A/B x100 =% (C)
Science experiment results	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
Other:	<input type="checkbox"/>			
<b>Week 3 Average</b>	<b>Add up column C &amp; divide by number of included <input checked="" type="checkbox"/> assignments =</b>			<b>%</b>