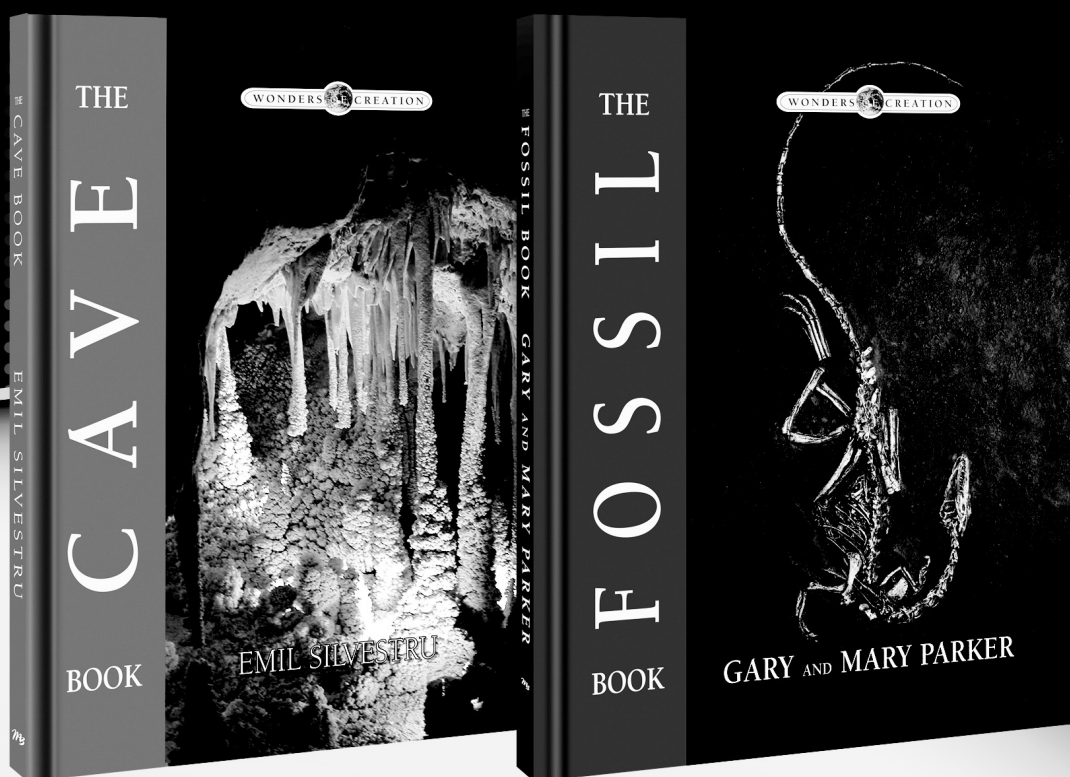




# INTRO TO SPELEOLOGY & PALEONTOLOGY

## Parent Lesson Planner (PLP)



 Weekly Lesson Schedule

 Student Worksheets

 Quizzes & Test

 Answer Key

7th – 9th grade

1 Year  
Science

1/2 Credit

First printing: March 2013  
Second printing: August 2013

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Master Books®, P.O. Box 726, Green Forest, AR 72638

Master Books® is a division of the New Leaf Publishing Group, Inc.

ISBN: 978-0-89051-729-1

Unless otherwise noted, Scripture quotations are from the New King James Version of the Bible.

**Printed in the United States of America**

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Psalm 11:3; NKJV

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that is in you, with meekness and fear.*

1 Peter 3:15; NKJV





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## Lessons for a 36-week course!

**Overview:** This *Introduction to Speleology and Paleontology PLP* contains materials for use with *The Cave Book* and *The Fossil Book* in the Wonders of Creation series. Materials are organized by each book in the following sections:







	Study guide worksheets
	Quizzes
	Semester Test & Final Exams
	Answer Key

<p>Suggested Optional Science Lab See page 12</p>
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**Features:** Each suggested weekly schedule has two to three easy-to-manage lessons which combine reading, worksheets, and vocabulary-building opportunities including an expanded glossary for each book. Designed to allow your student to be independent, materials in this resource are divided by section so you can remove quizzes, tests, and answer keys before beginning the coursework. As always, you are encouraged to adjust the schedule and materials as you need to in order to best work within your educational program.

**Workflow:** Students will read the pages in their book and then complete each section of the course materials. Tests are given at regular intervals with space to record each grade. Younger students may be given the option of taking open book tests.

**Lesson Scheduling:** Space is given for assignment dates. There is flexibility in scheduling. For example, the parent may opt for a M-W schedule rather than a M, W, F schedule. Each week listed has five days but due to vacations the school work week may not be M-F. Please adapt the days to your school schedule. As the student completes each assignment, he/she should put an “X” in the box.

	Approximately 30 to 45 minutes per lesson, two to three days a week
	Includes answer keys for worksheets, quizzes, and semester exams
	Worksheets for each chapter.
	Quizzes are included to help reinforce learning and provide assessment opportunities; optional semester exams included
	Designed for grades 7 to 9 in a one-year course to earn 1/2 science credit
	Suggested labs (if applicable)

Course includes books from creationist authors with solid, biblical worldviews:

### Emil Silvestru - *The Cave Book*

Dr. Emil Silvestru is a prospecting and exploration geologist. He is a cave expert born in Transylvania, Romania where he began exploring caves at the age of 12. He is currently a writer, researcher, and speaker.

### Dr. Gary Parker - *The Fossil Book*

After starting his 30-year college teaching career as a non-Christian evolutionist, Dr. Gary Parker became a zealous creationist, eventually serving as professor of biology at the Institute for Creation Research in San Diego, lecturing worldwide for both ICR and Answers in Genesis, writing five science textbooks and seven creation books (translated into over 10 languages), and appearing in numerous films, videos and television programs.

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## Course Description

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This is the suggested course sequence that allows one core area of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student; materials for each semester are independent of one another to allow flexibility.

## Semester 1: Speleology

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Explore deep into the hidden wonders beneath the surface as cave expert Dr. Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves. Discover the beautiful, thriving ecology, unique animals, and fragile balance of this little-seen ecosystem in caves from around the globe. *The Cave Book* will teach you about: a creationary model for how caves form, a history of how caves have been used by humans for shelter and worship, how old caves really are, the surprising world of Neanderthals and their connection to modern humans, how to make a stone axe and other early tools, just how long it really takes for caves to form, unusual animals that make caves their home, how connected caves are to mythology of many cultures, the climate and geologic processes and features of caves and karst rocks, the process by which ice caves form, exploration, hazards, and record-setting caves, how caves form, and features above and below the surface. Filled with beautiful and fascinating color photos of caves from around the world, *The Cave Book* is a wonderful guide to this hidden world.

## Semester 2: Paleontology

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Fossils have fascinated humans for centuries. From the smallest diatoms to the largest dinosaurs, finding a fossil is an exciting and rewarding experience. But where did they come from, and how long have they been around? These and many other questions are answered in this remarkable book. *The Fossil Book* will teach you about: the origin of fossils, how to start your own fossil collection, what kinds of fossils can be commonly found, the age of fossils, how scientists find and preserve fossils, how to identify kinds of fossils, how the Flood affected fossil formation, the Geologic Column Diagram, the difference between evolutionists' and creationists' views on fossils, the "four Cs" of biblical creation, the different kinds of rocks fossils are found in, and coal, and oil formation. Learning about fossils, their origins, and how to collect them can be both fun and educational. Marine and land fossils and the locations they are found in is a fascinating subject for students of all ages and has been studied by scientists and layperson alike for many years.

## First Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	✓	Grade
First Semester-First Quarter — <i>The Cave Book</i>					
Week 1	Day 1	Read Pages 6-7 • <i>The Cave Book</i> • (CB)			
	Day 2				
	Day 3	Introduction-Words to Know, Short Answer Questions <b>Cave Intro: Worksheet 1</b> • Page 15 • Lesson Planner (LP)			
	Day 4				
	Day 5	Introduction-Discussion Questions, Activities <b>Cave Intro: Worksheet 1</b> • Page 15 • (LP)			
Week 2	Day 6	Read Pages 8-11 • (CB)			
	Day 7				
	Day 8	Read Pages 12-21 • (CB)			
	Day 9				
	Day 10	Humans and Caves-Words to Know <b>Cave Ch1: Worksheet 1</b> • Page 17 • (LP)			
Week 3	Day 11	Humans and Caves-Short Answer Questions <b>Cave Ch1: Worksheet 1</b> • Page 17 • (LP)			
	Day 12				
	Day 13	Humans and Caves-Discussion Questions <b>Cave Ch1: Worksheet 1</b> • Page 18 • (LP)			
	Day 14				
	Day 15	Humans and Caves-Activities <b>Cave Ch1: Worksheet 1</b> • Page 18 • (LP)			
Week 4	Day 16				
	Day 17	The Cave Book Introduction-Chapter 1 Study Day			
	Day 18				
	Day 19	<b>The Cave Book Introduction-Ch1 Quiz 1</b> • Page 51 • (LP)			
	Day 20				
Week 5	Day 21	Read Pages 22-29 • (CB)			
	Day 22				
	Day 23	Caves and Mythology-Words to Know <b>Cave Ch2: Worksheet 1</b> • Page 19 • (LP)			
	Day 24				
	Day 25	Caves and Mythology-Short Answer Questions <b>Cave Ch2: Worksheet 1</b> • Page 19 • (LP)			
Week 6	Day 26				
	Day 27	Caves and Mythology-Discussion Questions <b>Cave Ch2: Worksheet 1</b> • Page 20 • (LP)			
	Day 28				
	Day 29	Caves and Mythology-Activities <b>Cave Ch2: Worksheet 1</b> • Page 20 • (LP)			
	Day 30				

Date	Day	Assignment	Due Date	✓	Grade
Week 7	Day 31	Read Pages 30-37 • (CB)			
	Day 32				
	Day 33	Caves and Karst-Words to Know <b>Cave Ch3: Worksheet 1 • Page 21 • (LP)</b>			
	Day 34				
	Day 35	Caves and Karst-Short Answer Questions <b>Cave Ch3: Worksheet 1 • Page 21 • (LP)</b>			
Week 8	Day 36	Caves and Karst-Discussion Questions <b>Cave Ch3: Worksheet 1 • Page 22 • (LP)</b>			
	Day 37				
	Day 38	Caves and Karst-Activities <b>Cave Ch3: Worksheet 1 • Page 22 • (LP)</b>			
	Day 39				
	Day 40	The Cave Book Chapters 2-3 Study Day			
Week 9	Day 41				
	Day 42	<b>The Cave Book Chapters 2-3 Quiz 2 • Page 53 • (LP)</b>			
	Day 43				
	Day 44	Read Pages 38-42 • (CB)			
	Day 45				
First Semester-Second Quarter — <i>The Cave Book</i>					
Week 1	Day 46				
	Day 47	Read Pages 43-47 • (CB)			
	Day 48				
	Day 49	Classifying Caves-Words to Know <b>Cave Ch4: Worksheet 1 • Page 23 • (LP)</b>			
	Day 50				
Week 2	Day 51				
	Day 52	Classifying Caves-Short Answer Questions <b>Cave Ch4: Worksheet 1 • Page 23 • (LP)</b>			
	Day 53				
	Day 54	Classifying Caves-Discussion Questions <b>Cave Ch4: Worksheet 1 • Page 24 • (LP)</b>			
	Day 55				
Week 3	Day 56				
	Day 57	Classifying Caves-Activities <b>Cave Ch4: Worksheet 1 • Page 24 • (LP)</b>			
	Day 58				
	Day 59	Read Pages 48-55 • (CB)			
	Day 60				

Date	Day	Assignment	Due Date	✓	Grade
Week 4	Day 61				
	Day 62	Exploring Caves-Words to Know, Short Answer Questions <b>Cave Ch5: Worksheet 1 • Page 25 • (LP)</b>			
	Day 63				
	Day 64	Exploring Caves-Discussion Questions <b>Cave Ch5: Worksheet 1 • Page 25 • (LP)</b>			
	Day 65				
Week 5	Day 66	Exploring Caves-Activities <b>Cave Ch5: Worksheet 1 • Page 26 • (LP)</b>			
	Day 67				
	Day 68	The Cave Book Chapters 4-5 Study Day			
	Day 69				
	Day 70	<b>The Cave Book Chapters 4-5 Quiz 3 • Page 55 • (LP)</b>			
Week 6	Day 71	Read Pages 56-67 • (CB)			
	Day 72				
	Day 73	Read Pages 68-72 • (CB)			
	Day 74				
	Day 75	Studying Caves-Words to Know <b>Cave Ch6: Worksheet 1 • Page 27 • (LP)</b>			
Week 7	Day 76				
	Day 77	Studying Caves-Short Answer Questions <b>Cave Ch6: Worksheet 1 • Page 27 • (LP)</b>			
	Day 78				
	Day 79	Studying Caves-Questions <b>Cave Ch6: Worksheet 1 • Page 27 • (LP)</b>			
	Day 80				
Week 8	Day 81				
	Day 82	Studying Caves-Activities <b>Cave Ch6: Worksheet 1 • Page 28 • (LP)</b>			
	Day 83				
	Day 84	The Cave Book Chapters 6 Study Day			
	Day 85				
Week 9	Day 86	<b>The Cave Book Chapter 6 Quiz 4 • Page 57 • (LP)</b>			
	Day 87				
	Day 88	The Cave Book Semester Exam Study Day			
	Day 89				
	Day 90	<b>Semester Exam Test 1 (optional) • Page 59 • (LP)</b>			
		Mid-Term Grade			



## Second Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	✓	Grade
Second Semester-Third Quarter — <i>The Fossil Book</i>					
Week 1	Day 91				
	Day 92	Read Pages 4-5 • <i>The Fossil Book</i> • (FB) Introduction-Words to Know <b>Fossil Intro: Worksheet 1</b> • Page 31 • Lesson Plan (LP)			
	Day 93				
	Day 94	Introduction-Questions <b>Fossil Intro: Worksheet 1</b> • Page 31 • (LP)			
	Day 95				
Week 2	Day 96				
	Day 97	Introduction-Activities <b>Fossil Intro: Worksheet 1</b> • Page 32 • (LP)			
	Day 98				
	Day 99	Read Pages 6-17 • (FB)			
	Day 100				
Week 3	Day 101				
	Day 102	Fossils, Flooding, and Sedimentary-Words to Know <b>Fossil Ch1: Worksheet 1</b> • Page 33 • (LP)			
	Day 103				
	Day 104	Fossils, Flooding, and Sedimentary-Questions <b>Fossil Ch1: Worksheet 1</b> • Page 33 • (LP)			
	Day 105				
Week 4	Day 106	Fossils, Flooding, and Sedimentary-Activities <b>Fossil Ch1: Worksheet 1</b> • Page 34 • (LP)			
	Day 107				
	Day 108	The Fossil Book Introduction-Chapter 1 Study Day			
	Day 109				
	Day 110	<b>The Fossil Book Introduction-Ch1 Quiz 1</b> • Page 63 • (LP)			
Week 5	Day 111	Read Pages 18-25 • (FB)			
	Day 112				
	Day 113	Geologic Column Diagram-Words to Know <b>Fossil Ch2: Worksheet 1</b> • Page 35 • (LP)			
	Day 114				
	Day 115	Geologic Column Diagram-Questions <b>Fossil Ch2: Worksheet 1</b> • Page 35 • (LP)			
Week 6	Day 116				
	Day 117	Geologic Column Diagram-Activities <b>Fossil Ch2: Worksheet 1</b> • Page 36 • (LP)			
	Day 118				
	Day 119	Read Pages 26-29 • (FB)			
	Day 120				

Date	Day	Assignment	Due Date	✓	Grade
Week 7	Day 121				
	Day 122	Read Pages 30-33 • (FB)			
	Day 123				
	Day 124	Flood Geology vs. Evolution-Words to Know <b>Fossil Ch3: Worksheet 1 • Page 37 • (LP)</b>			
	Day 125				
Week 8	Day 126	Flood Geology vs. Evolution-Questions <b>Fossil Ch3: Worksheet 1 • Page 37 • (LP)</b>			
	Day 127				
	Day 128	Flood Geology vs. Evolution-Activities <b>Fossil Ch3: Worksheet 1 • Page 38 • (LP)</b>			
	Day 129				
	Day 130	The Fossil Book Chapters 2-3 Study Day			
Week 9	Day 131				
	Day 132	<b>The Fossil Book Chapters 2-3 Quiz 2 • Page 65 • (LP)</b>			
	Day 133				
	Day 134	Read Pages 34-41 • (FB)			
	Day 135				
<b>Second Semester-Fourth Quarter — <i>The Fossil Book</i></b>					
Week 1	Day 136	Read Pages 42-49 • (FB)			
	Day 137				
	Day 138	Kinds of Fossils I-Words to Know <b>Fossil Ch4: Worksheet 1 • Page 39 • (LP)</b>			
	Day 139				
	Day 140	Kinds of Fossils I-Questions <b>Fossil Ch4: Worksheet 1 • Page 40 • (LP)</b>			
Week 2	Day 141				
	Day 142	Kinds of Fossils I-Activities <b>Fossil Ch4: Worksheet 1 • Page 42 • (LP)</b>			
	Day 143				
	Day 144	The Fossil Book Chapter 4 Study Day			
	Day 145				
Week 3	Day 146	<b>The Fossil Book Chapter 4 Quiz 3 • Page 67 • (LP)</b>			
	Day 147				
	Day 148	Read Pages 50-55 • (FB)			
	Day 149				
	Day 150	Read Pages 56-64 • (FB)			
Week 4	Day 151				
	Day 152	Read Pages 65-67 • (FB)			
	Day 153				
	Day 154	Kinds of Fossils II-Words to Know <b>Fossil Ch5: Worksheet 1 • Page 43 • (LP)</b>			
	Day 155				

Date	Day	Assignment	Due Date	✓	Grade
Week 5	Day 156	Kinds of Fossils II-Questions <b>Fossil Ch5: Worksheet 1 • Page 43 • (LP)</b>			
	Day 157				
	Day 158	Kinds of Fossils II-Activities <b>Fossil Ch5: Worksheet 1 • Page 44 • (LP)</b>			
	Day 159				
	Day 160	Read Pages 68-71 • (FB)			
Week 6	Day 161	Conclusion-Questions <b>Fossil Conclusion: Worksheet 1 • Page 45 • (LP)</b>			
	Day 162				
	Day 163	Conclusion-Activities <b>Fossil Conclusion: Worksheet 1 • Page 45 • (LP)</b>			
	Day 164				
	Day 165	Application-Read Pages 72-74			
Week 7	Day 166				
	Day 167	Application-Read Pages 75-77			
	Day 168				
	Day 169	Application-Questions <b>Fossil Application: Worksheet 1 • Page 47 • (LP)</b>			
	Day 170				
Week 8	Day 171				
	Day 172	Application-True/False <b>Fossil Application: Worksheet 1 • Page 47 • (LP)</b>			
	Day 173				
	Day 174	The Fossil Book Chapters 5-Conclusion Study Day			
	Day 175				
Week 9	Day 176	<b>The Fossil Book Chapters 5-Concl Quiz 4 • Page 69 • (LP)</b>			
	Day 177				
	Day 178	The Fossil Book Intro-Conclusion Study Day			
	Day 179				
	Day 180	<b>Semester Exam Intro-Concl Test 1 (opt) • Page 71 • (LP)</b>			
		Final Grade			

## **Suggested Optional Science Lab**

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There are a variety of companies that offer science labs that complement our courses. These items are only suggestions, not requirements, and they are not included in the daily schedule. We have tried to find materials that are free of evolutionary teaching, but please review any materials you may purchase. The following items are available from [www.HomeTrainingTools.com](http://www.HomeTrainingTools.com).

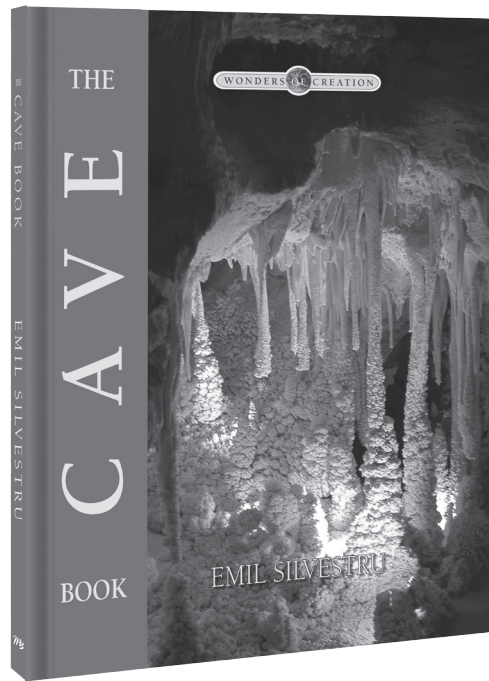
*Intro to Speleology & Paleontology*

*The Cave Book*

RM-CRYSGAR Flowering Rock Crystal Garden

*The Fossil Book*

RM-FSTUDY Fossil Study Kit



## **Speleology Worksheets**

**for Use with**

***The Cave Book***



## **Words to Know**

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karst

karst aquifers

## **Short Answer**

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1. What is the probable reason some of our ancestors may have entered the “underland” of cave systems?
2. The strange event near the \_\_\_\_\_ not only split the once unified population, but scattered those with different skills and abilities.
3. How much of the world’s drinking water comes from limestone (karst) terrains?
4. How much is it estimated to be by 2025?

## Discussion Questions

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1. What role did caves play for our ancestors?
  
2. How did the events surrounding the Tower of Babel affect the ancient groups of people who disbursed from that area?

## Activities

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1. Read through the account of the Tower of Babel (Genesis 11:1–9), and discuss issues that would have affected the various people groups when this event occurred.
2. Use *Adams' Chart of History* to trace the lineage of various people groups from the time of the Tower of Babel to the early 1900s.