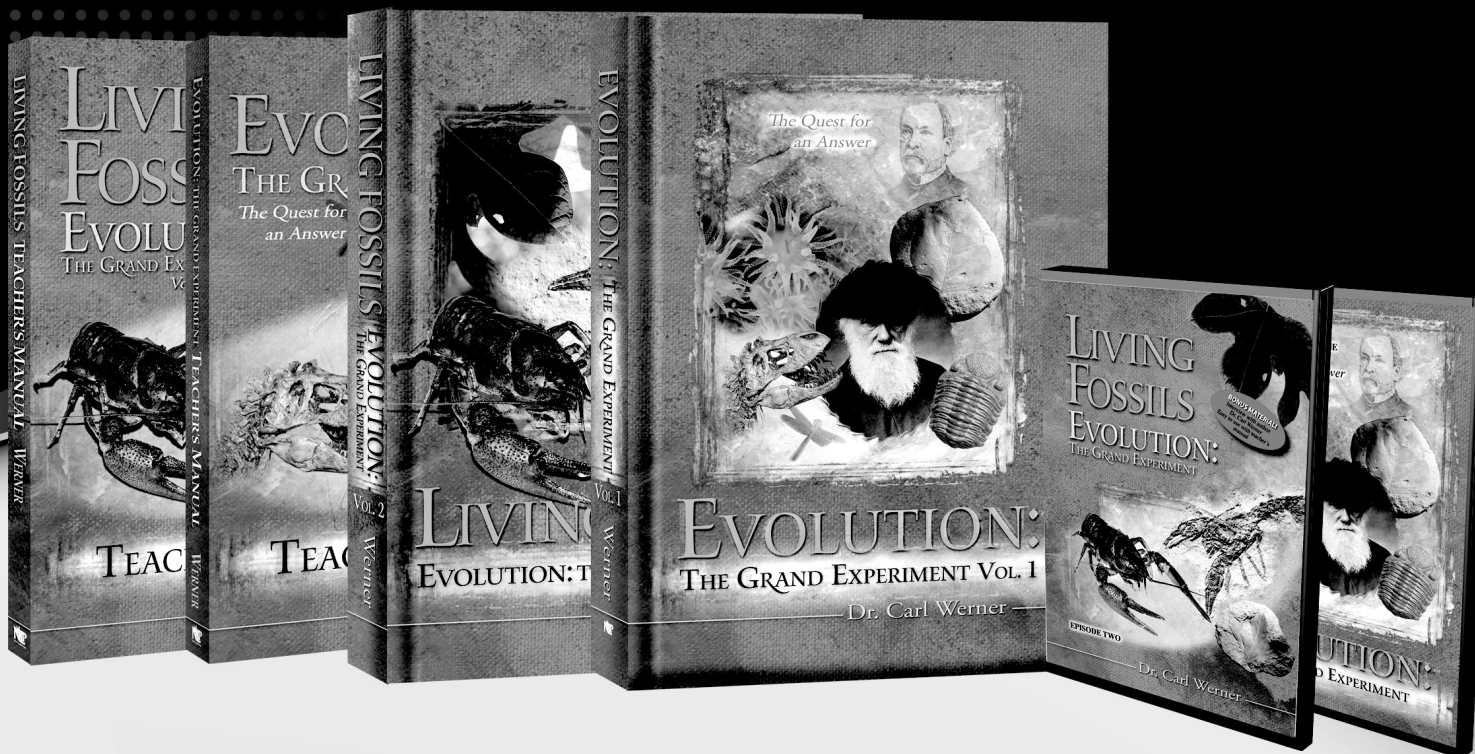



# LIFE SCIENCE: ORIGINS & SCIENTIFIC THEORY


## Parent Lesson Planner (PLP)



 Weekly Lesson Schedule

10th –12th grade

 Alternate Sectional & Final Exams

 Alternate Exams  
Answer Key

1 Year  
Science

1 Credit

First printing: March 2013  
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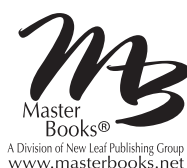
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Unless otherwise noted, Scripture quotations are from the New King James Version of the Bible.

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*If the foundations are destroyed, what can the righteous do?*

Psalm 11:3; NKJV

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1 Peter 3:15; NKJV


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## Lessons for a 36-week course!

**Overview:** This *Life Science: Origins & Scientific Theory PLP* contains materials for use with *Evolution: The Grand Experiment Vol. 1* and *Living Fossils*. By developing a deeper understanding of these concepts, students will be able to develop and support a strong worldview.

**Course Description:** Upon completion of this course, students will have a thorough understanding of the theory of evolution and its limits. Students will develop scientific critical thinking skills through careful analysis of evidence and comparing the merits of different theories. Students will study paleontology, biology, and geology as they relate to the study of origins through an exploration of living fossils.

<b>Q</b>	Alternate Sectional Exam
<b>T</b>	Alternate Final Exams
	Answer Key

Suggested Optional Science Lab  
See page 11

### Workflow:

- Step 1: Teacher leads Discussion Questions.
- Step 2: Student watches DVD (if applicable)
- Step 3: Student reads chapter.
- Step 4: Student is given and completes Chapter Objectives after reading the chapter.
- Step 5: Teacher administers Chapter Test.
- Step 6: Teacher administers Sectional Exams where indicated.
- Step 7: Teacher administers Comprehensive Final Exams where indicated.

**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. Adapt the days to your school schedule. As the student completes each assignment, he/she should put an X in the box. Test grades should also be recorded in the lesson plan where indicated.

### How to Use this Course

You will follow the course calendar whether you are using the course for one or multiple students.

#### For one student:

*The Grand Experiment* and *Living Fossils* — *Teacher’s Manuals* are each set up for a course for one student, using second and third versions of each chapter quiz for either sectional and final exams.

#### For multiple students:

See additional instructions on the next page. Alternate sectional and final exams are included in this parent lesson plan packet for your convenience.

### About the Author:

In his sophomore year of college, **Dr. Carl Werner** was challenged by a fellow classmate with these words: “I bet you can’t prove evolution.” This began Dr. Werner’s quest for an answer. After 18 years of study, Dr. Werner would begin travelling to the best museums and dig sites around the globe photographing thousands of original fossils and the actual fossil layers where they were found, and interviewing scientists on the issue. After his years of study and the evidence he has seen, Dr. Werner realized he had reached a most unexpected truth – the truth of a biblical creation.

[www.thegrandexperiment.com](http://www.thegrandexperiment.com)

This course is intended to help a student assess information about evolution and creation, and based on the information provided for each, form his or her own understanding of this issue. The author spent 30 years in a challenge to prove evolution, yet the more he learned, the more the truth of God's Word became apparent in the evidence and interviews he found while travelling the world speaking to scholars, and museum officials and viewing artifacts.

While originally designed for classroom use, this course represents substantial value and flexibility for those who choose to home educate. The content and organization of the teacher manual, means that this course can be used by more than one student at a time, or even multiple times for a single student without reusing course testing materials.

**Chapter Objectives:** These are presented in a way that is perfect for students to answer in a notebook. Having students copy the question and then answer in the notebook is even more helpful by putting the question and answer in proximity and context. These notes in combination with the chapter tests are excellent resources for preparing for sectional tests (if given) or a final exam at the end. Chapter objective can be shared with a student or students, and then kept in a binder for future use if needed. Students are also encouraged to keep these questions and answers for pre-test studying.

**Chapter Exams:** For each chapter, an A, B and C test is provided in the teacher's manual. Here is how you can extend your use of this material:

**Option 1:** You can follow the instructions in the book, which are designed for one student. Or you can modify one of the following options for your student and still have enough course materials to use the course multiple times.

**Option 2:** You could have up to three students taking the course at the same time, with each student having different tests if you assign each Test A to one student, Test B to another, and Test C to a third. This ensures each student has a different test, and educators can better assess each student's individual understanding of the material at each point. Alternate sectional and final exams are included in this manual for your convenience.

**Option 3:** Adjust the testing and materials to your educational program. For example, each chapter test could be used as additional worksheet material for one or more students, with only the included sectional exams to be administered.

Or even just use a final exam for testing comprehension of material if you wish to assign several essays, a project, or a term paper based on individual questions of your choice from the exams and objectives or based on a chapter topic. This option would allow for additional writing and research opportunities for some students, while engaging them more fully in comprehension and application of knowledge for this educational material.

**Sectional Exams:** If used for a single student, a combination of "B" tests from the teacher's manual form the basis of a sectional exam. Alternate sectional exams are included in this package to give you added flexibility in using this course per your own educational program needs, whether you are teaching one or multiple students at one time, or for future use.

**Final Exam:** "C" tests form a 190-page final exam if you are using the book per its instructions. If you are choosing one of the alternate options discussed, you will find an alternate final exam in this packet for your convenience.

**Part 1 Evolution: *The Grand Experiment: The Quest for an Answer***

Date	Day	Assignment	Due Date	✓	Grade
<b>First Semester — First Quarter</b>					
Week 1	Day 1	Watch DVD in entirety to become familiar with course topics			
	Day 2	Chapter 1-Class Discussion, Watch DVD, Read pgs 1-10			
	Day 3	Answer Chapter 1 Student Objectives Questions 1-12			
	Day 4	Take Chapter 1 Test			
	Day 5	Chapter 2-Class Discussion, Watch DVD, Read pgs 11-22			
Week 2	Day 6	Answer Chapter 2 Student Objectives Questions 1-16			
	Day 7	Take Chapter 2 Test			
	Day 8	Chapter 3-Class Discussion, Watch DVD, Read pgs 23-30			
	Day 9	Answer Chapter 3 Student Objectives Questions 1-15			
	Day 10	Take Chapter 3 Test			
Week 3	Day 11	Study Day-Chapters 1-3			
	Day 12	Study Day-Chapters 1-3			
	Day 13	Take Sectional Exam 1 Chapters 1-3 (or alternate on page 13)			
	Day 14	Chapter 4-Class Discussion, Watch DVD, Read pgs 31-37			
	Day 15	Chapter 4-Read pgs 38-54			
Week 4	Day 16	Answer Chapter 4 Student Objectives Questions 1-13			
	Day 17	Answer Chapter 4 Student Objectives Questions 14-27			
	Day 18	Take Chapter 4 Test			
	Day 19	Chapter 5-Class Discussion, Watch DVD, Read pgs 55-59			
	Day 20	Chapter 5-Class Discussion, Watch DVD, Read pgs 60-72			
Week 5	Day 21	Answer Chapter 5 Student Objectives Questions 1-11			
	Day 22	Answer Chapter 5 Student Objectives Questions 12-22			
	Day 23	Take Chapter 5 Test			
	Day 24	Chapter 6-Class Discussion, Watch DVD, Read pgs 73-86			
	Day 25	Answer Chapter 6 Student Objectives Questions 1-15			
Week 6	Day 26	Take Chapter 6 Test			
	Day 27	Chapter 7-Class Discussion, Read pgs 87-94			
	Day 28	Answer Chapter 7 Student Objectives Questions 1-17			
	Day 29	Take Chapter 7 Test			
	Day 30	Chapter 8-Class Discussion, Watch DVD, Read pgs 95-98			
Week 7	Day 31	Answer Chapter 8 Student Objectives Questions 1-14			
	Day 32	Take Chapter 8 Test			
	Day 33	Chapter 9-Class Discussion, Watch DVD, Read pgs 99-104			
	Day 34	Answer Chapter 9 Student Objectives Questions 1-11			
	Day 35	Take Chapter 9 Test			

Date	Day	Assignment	Due Date	✓	Grade
Week 8	Day 36	Study Day-Chapters 4-9			
	Day 37	Study Day-Chapters 4-9			
	Day 38	Study Day-Chapters 4-9			
	Day 39	Take Sectional Exam 2 Chapters 4-9 (or alternate on page 15)			
	Day 40	Chapter 10-Class Discussion, Watch DVD, Read pgs 105-112			
Week 9	Day 41	Answer Chapter 10 Student Objectives Questions 1-17			
	Day 42	Take Chapter 10 Test			
	Day 43	Chapter 11-Class Discussion, Watch DVD, Read pgs 113-116			
	Day 44	Answer Chapter 11 Student Objectives Questions 1-12			
	Day 45	Take Chapter 11 Test			
<b>First Semester — Second Quarter</b>					
Week 1	Day 46	Chapter 12-Class Discussion, Watch DVD, Read pgs 117-128			
	Day 47	Answer Chapter 12 Student Objectives Questions 1-14			
	Day 48	Answer Chapter 12 Student Objectives Questions 15-25			
	Day 49	Take Chapter 12 Test			
	Day 50	Chapter 13-Class Discussion, Watch DVD, Read pgs 129-146			
Week 2	Day 51	Answer Chapter 13 Student Objectives Questions 1-19			
	Day 52	Answer Chapter 13 Student Objectives Questions 20-34			
	Day 53	Take Chapter 13 Test			
	Day 54	Chapter 14-Class Discussion, Watch DVD, Read pgs 147-164			
	Day 55	Answer Chapter 14 Student Objectives Questions 1-16			
Week 3	Day 56	Answer Chapter 14 Student Objectives Questions 17-33			
	Day 57	Take Chapter 14 Test			
	Day 58	Chapter 15-Class Discussion, Watch DVD, Read pgs 165-184			
	Day 59	Answer Chapter 15 Student Objectives Questions 1-15			
	Day 60	Answer Chapter 15 Student Objectives Questions 16-29			
Week 4	Day 61	Take Chapter 15 Test			
	Day 62	Study Day-Chapters 10-15			
	Day 63	Study Day-Chapters 10-15			
	Day 64	Study Day-Chapters 10-15			
	Day 65	Take Sectional Exam 3 Chapters 10-15 (or alternate on page 19)			
Week 5	Day 66	Chapter 16-Class Discussion, Read pgs 185-190			
	Day 67	Answer Chapter 16 Student Objectives Questions 1-12			
	Day 68	Take Chapter 16 Test			
	Day 69	Chapter 17-Class Discussion, Read pgs 191-198			
	Day 70	Answer Chapter 17 Student Objectives Questions 1-13			

Date	Day	Assignment	Due Date	✓	Grade
Week 6	Day 71	Answer Chapter 17 Student Objectives Questions 14-27			
	Day 72	Take Chapter 17 Test			
	Day 73	Chapter 18-Class Discussion, Read pgs 199-204			
	Day 74	Answer Chapter 18 Student Objectives Questions 1-21			
	Day 75	Take Chapter 18 Test			
Week 7	Day 76	Chapter 19-Class Discussion, Read pgs 205-210			
	Day 77	Answer Chapter 19 Student Objectives Questions 1-9			
	Day 78	Answer Chapter 19 Student Objectives Questions 10-24			
	Day 79	Take Chapter 19 Test			
	Day 80	Chapter 20-Watch DVD, Read pgs 211-222			
Week 8	Day 81	Study Day-Chapters 16-19			
	Day 82	Study Day-Chapters 16-19			
	Day 83	Study Day-Chapters 16-19			
	Day 84	Take Sectional Exam 4 Chapters 16-19 (or alternate on page 23)			
	Day 85	Watch DVD in its entirety as a summary.			
Week 9	Day 86	Study Day-Chapters 1-19			
	Day 87	Study Day-Chapters 1-19			
	Day 88	Study Day-Chapters 1-19			
	Day 89	Study Day-Chapters 1-19			
	Day 90	Take Comprehensive Exam Chapters 1-19 (or alternate on page 27)			
		Mid-Term Grade			



## Second Semester Suggested Daily Schedule

### Part 2 Evolution: The Grand Experiment: Living Fossils

Date	Day	Assignment	Due Date	✓	Grade
<b>Second Semester — Third Quarter</b>					
Week 1	Day 91	Chapter 1-Class Discussion, Watch DVD, Read pgs 1-6			
	Day 92	Answer Chapter 1 Student Objectives Questions 1-11			
	Day 93	Take Chapter 1 Test			
	Day 94	Chapter 2-Class Discussion, Read pgs 7-14			
	Day 95	Answer Chapter 2 Student Objectives Questions 1-11			
Week 2	Day 96	Take Chapter 2 Test			
	Day 97	Chapter 3-Class Discussion, Read pgs 15-28			
	Day 98	Answer Chapter 3 Student Objectives Questions 1-17			
	Day 99	Take Chapter 3 Test			
	Day 100	Chapter 4-Class Discussion, Watch DVD, Read pgs 29-44			
Week 3	Day 101	Answer Chapter 4 Student Objectives Questions 1-7			
	Day 102	Take Chapter 4 Test			
	Day 103	Chapter 5-Class Discussion, Read pgs 45-56			
	Day 104	Answer Chapter 5 Student Objectives Questions 1-7			
	Day 105	Take Chapter 5 Test			
Week 4	Day 106	Chapter 6-Class Discussion, Read pgs 57-70			
	Day 107	Answer Chapter 6 Student Objectives Questions 1-7			
	Day 108	Take Chapter 6 Test			
	Day 109	Chapter 7-Class Discussion, Read pgs 71-76			
	Day 110	Answer Chapter 7 Student Objectives Questions 1-7			
Week 5	Day 111	Take Chapter 7 Test			
	Day 112	Chapter 8-Class Discussion, Read pgs 77-82			
	Day 113	Answer Chapter 8 Student Objectives Questions 1-8			
	Day 114	Take Chapter 8 Test			
	Day 115	Chapter 9-Class Discussion, Read pgs 83-88			
Week 6	Day 116	Answer Chapter 9 Student Objectives Questions 1-15			
	Day 117	Take Chapter 9 Test			
	Day 118	Chapter 10-Class Discussion, Read pgs 89-92			
	Day 119	Answer Chapter 10 Student Objectives Questions 1-14			
	Day 120	Take Chapter 10 Test			
Week 7	Day 121	Chapter 11-Class Discussion, Read pgs 93-98			
	Day 122	Answer Chapter 11 Student Objectives Questions 1-6			
	Day 123	Take Chapter 11 Test			
	Day 124	Study Day-Chapters 1-11			
	Day 125	Study Day-Chapters 1-11			

Date	Day	Assignment	Due Date	✓	Grade
Week 8	Day 126	Study Day-Chapters 1-11			
	Day 127	Take Sectional Exam 1 Chapters 1-11 (or alternate on page 33)			
	Day 128	Chapter 12-Class Discussion, Watch DVD, Read pgs 99-116			
	Day 129	Answer Chapter 12 Student Objectives Questions 1-9			
	Day 130	Take Chapter 12 Test			
Week 9	Day 131	Chapter 13-Class Discussion, Read pgs 117-124			
	Day 132	Answer Chapter 13 Student Objectives Questions 1-10			
	Day 133	Take Chapter 13 Test			
	Day 134	Chapter 14-Class Discussion, Read pgs 125-128			
	Day 135	Answer Chapter 14 Student Objectives Questions 1-5			
<b>Second Semester — Fourth Quarter</b>					
Week 1	Day 136	Take Chapter 14 Test			
	Day 137	Chapter 15-Class Discussion, Watch DVD, Read pgs 129-136			
	Day 138	Answer Chapter 15 Student Objectives Questions 1-7			
	Day 139	Take Chapter 15 Test			
	Day 140	Chapter 16-Class Discussion, Watch DVD, Read pgs 137-142			
Week 2	Day 141	Answer Chapter 16 Student Objectives Questions 1-9			
	Day 142	Take Chapter 16 Test			
	Day 143	Chapter 17-Class Discussion, Read pgs 143-146			
	Day 144	Answer Chapter 17 Student Objectives Questions 1-5			
	Day 145	Take Chapter 17 Test			
Week 3	Day 146	Chapter 18-Class Discussion, Read pgs 147-154			
	Day 147	Answer Chapter 18 Student Objectives Questions 1-10			
	Day 148	Take Chapter 18 Test			
	Day 149	Chapter 19-Class Discussion, Read pgs 155-160			
	Day 150	Answer Chapter 19 Student Objectives Questions 1-10			
Week 4	Day 151	Take Chapter 19 Test			
	Day 152	Chapter 20-Class Discussion, Watch DVD, Read pgs 161-168			
	Day 153	Answer Chapter 20 Student Objectives Questions 1-7			
	Day 154	Take Chapter 20 Test			
	Day 155	Chapter 21-Class Discussion, Watch DVD, Read pgs 169-182			
Week 5	Day 156	Answer Chapter 21 Student Objectives Questions 1-9			
	Day 157	Answer Chapter 21 Student Objectives Questions 10-19			
	Day 158	Take Chapter 21 Test			
	Day 159	Chapter 22-Class Discussion, Watch DVD, Read pgs 183-196			
	Day 160	Answer Chapter 22 Student Objectives Questions 1-12			
Week 6	Day 161	Take Chapter 22 Test			
	Day 162	Chapter 23-Class Discussion, Read pgs 197-208			
	Day 163	Answer Chapter 23 Student Objectives Questions 1-4			
	Day 164	Take Chapter 23 Test			
	Day 165	Chapter 24-Class Discussion, Read pgs 209-230			

Date	Day	Assignment	Due Date	✓	Grade
Week 7	Day 166	Answer Chapter 24 Student Objectives Questions 1-7			
	Day 167	Take Chapter 24 Test			
	Day 168	Chapter 25-Class Discussion, Watch DVD, Read pgs 231-243			
	Day 169	Answer Chapter 25 Student Objectives Questions 1-8			
	Day 170	Take Chapter 25 Test			
Week 8	Day 171	Study Day-Chapters 12-25			
	Day 172	Study Day-Chapters 12-25			
	Day 173	Study Day-Chapters 12-25			
	Day 174	Take Sectional Exam 2 Chapters 12-25 (or alternate on page 37)			
	Day 175	Watch DVD in its entirety as a summary.			
Week 9	Day 176	Study Day-Chapters 1-25			
	Day 177	Study Day-Chapters 1-25			
	Day 178	Study Day-Chapters 1-25			
	Day 179	Study Day-Chapters 1-25			
	Day 180	Take Comprehensive Exam Chapters 1-25 (or alternate on page 41)			
		Second Semester Grade			
		Final Grade			

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).

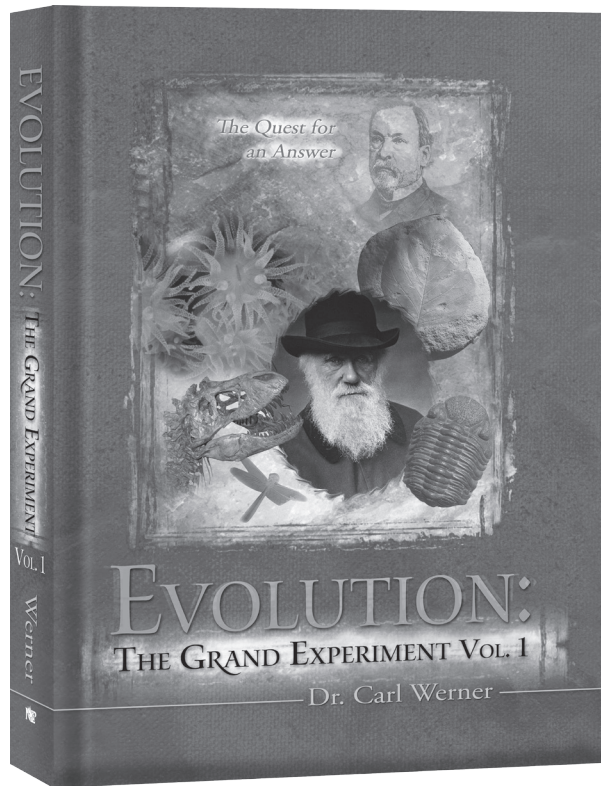
*Evolution: The Grand Experiment Volume 1*

CM-DNAMOD DNA Molecular Model Kit

RM-TRILKIN Fossil Trilobite

*Living Fossils Evolution: The Grand Experiment Volume 2*

RM-FOSSBOX Mixed Fossils Set



**Alternate and Sectional Test**  
**for Use with**  
***The Grand Experiment***

T	<i>The Grand Experiment</i>	Alternate Sectional Exam 1	Scope: Chapters 1–3	Total score: ____ of 100	Name
	Concepts & Comprehension				

**Answer the following questions; each answer is worth 3 points.**

1. What are the two opposing views on the origin of life?
    - A. \_\_\_\_\_
    - B. \_\_\_\_\_
  2. Name one of the four best evidences *against* evolution, cited by scientists who oppose the theory.  
\_\_\_\_\_
  3. What famous artist painted a scene of a deity creating man on the ceiling of the Sistine Chapel?  
\_\_\_\_\_
  4. Since Darwin first published his theory of evolution, how many million fossils have been collected by museums? \_\_\_\_\_
  5. Since the middle of the 20th century, there have been a growing number of scientists who reject the theory of evolution based on the discovery of \_\_\_\_\_ and \_\_\_\_\_, of which Darwin was unaware.
  6. What theory eventually replaced the theory of spontaneous generation and is the basis for the modern theory of how life began naturally? \_\_\_\_\_
  7. Pond scum that forms in a bottle of boiled pond water is actually a collection of \_\_\_\_\_.
  8. T F The theory of spontaneous generation was believed by scientists for less than 1,000 years. Circle your response.
  9. T F Cheesecloth prevents flies from laying their eggs on meat. Circle your response.
  10. T F Dr. Louis Pasteur disproved the spontaneous generation of bacteria. Circle your response.
  11. Before Darwin's theory of evolution, what theory did scientists believe explained the origin of life?  
\_\_\_\_\_
  12. In what year did Darwin publish his first book on evolution? \_\_\_\_\_
  13. Define the theory of acquired characteristics. \_\_\_\_\_
- 
14. T F The modern theory of evolution proposes that all forms of life ultimately evolved from a single-celled organism or bacterium-like organism. Circle your response.
  15. T F We now know that changes in the cells of the body (e.g., changes in the skin cells and muscle cells) that occur during life can be passed on to the next generation. Circle your response.

16. List, in order, the eight types of animals or organisms that theoretically evolved from one another, from the theoretical primordial form to a human being, according to the modern theory of evolution.
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
  8. \_\_\_\_\_
17. According to the theory of evolution, how long did it take to accomplish the evolution from a single-cell organism to a human (general answer)?
18. What was the name of the 17th-century scientist “proved” that mice spontaneously generate from wheat and dirty underwear?
19. How is spontaneous generation an example of an idea that leads to bad science?
20. Use the example of a horse and a giraffe to explain the theory of acquired characteristics that some scientists felt that would mean we could see a horse with a very long neck. What was the flaw in their reasoning?

**Short Answer - Applied Knowledge (13 Points)**

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21. Which of the two explanations for how life began is one that you had before this course began? How has what you have learned so far changed your perception of this controversial issue?