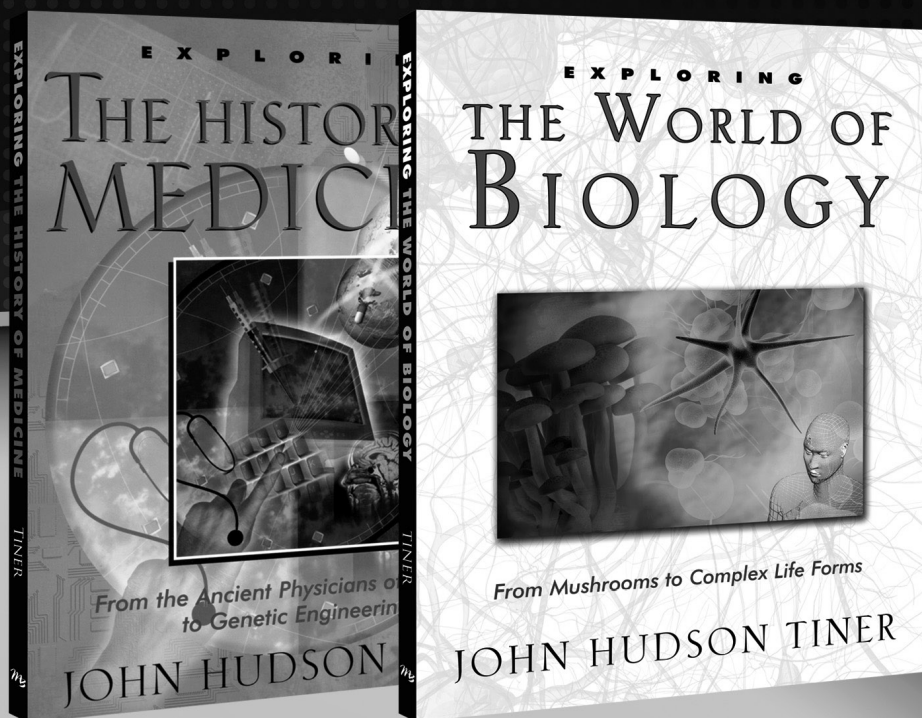






# CONCEPTS OF MEDICINE & BIOLOGY

## 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

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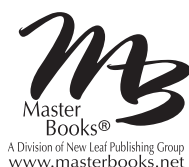
Unless otherwise noted, Scripture quotations are from the New King James Version of the Bible.

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Psalm 11:3; NKJV

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to give a defense to everyone who asks you a reason for the hope  
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 *Concepts of Medicine and Biology PLP* contains materials for use with *Exploring the History of Medicine* and *Exploring the World of Biology* in the Exploring series. Materials are organized by each book in the following sections:

	Study Guide Worksheets
	Quizzes
	Semester Test & Final Exams
	Answer Key






Suggested Optional Science Lab

See page 13

**Features:** Each suggested weekly schedule has two or 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 needed 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 PLP. They should be encouraged to complete as many of the activities and projects as possible as well. Tests are given at regular intervals with space to record each grade. If used with younger students, they may be given the option of only choosing activities or projects of interest to them and 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. 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 tests
	Worksheets for each chapter
	Quizzes are included to help reinforce learning and provide assessment opportunities; optional semester tests included
	Designed for grades 7 to 9 in a one-year course to earn 1/2 science credit

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

**John Hudson Tiner** — *Exploring the History of Medicine*, *Exploring the World of Biology*

John Hudson Tiner received five National Science Foundation teaching fellowships during his 12 years as a teacher of mathematics and science that allowed him to study graduate chemistry, astronomy, and mathematics. He also worked as a mathematician and cartographer for the Defense Mapping Agency, Aerospace Center in St. Louis, MO.

Tiner has received numerous honors for his writing, including the Missouri Writer’s Guild award for best juvenile book for *Exploring the World of Chemistry*. He and his wife, Jeanene, live in Missouri.

# Concepts of Medicine and Biology

## 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: Medicine

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From surgery to vaccines, man has made great strides in the field of medicine. Quality of life has improved dramatically in the last few decades alone, and the future is bright. But students must not forget that God provided humans with minds and resources to bring about these advances. A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury. In *Exploring the History of Medicine*, author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their abilities to better mankind and give glory to God. The fascinating history of medicine comes alive in this book, providing students with a healthy dose of facts, mini-biographies, and vintage illustrations.

## Semester 2: Biology

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The field of biology focuses on living things, from the smallest microscopic protozoa to the largest mammal. In this book you will read and explore the life of plants, insects, spiders and other arachnids, life in water, reptiles, birds, and mammals, highlighting God's amazing creation. You will learn about biological classification, how seeds spread around the world, long-term storage of energy, how biologists learned how the stomach digested food, the plant that gave George de Mestral the idea of Velcro, and so much more. For most of history, biologists used the visible appearance of plants or animals to classify them. They grouped plants or animals with similar-looking features into families. In the 1990s, biologists began extracting DNA and RNA from cells as a guide to how plants or animals should be grouped. Like visual structures, these reveal the underlying design of creation. *Exploring the World of Biology* is a fascinating look at life—from the smallest proteins and spores, to the complex life systems of humans and animals.

## First Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	✓	Grade
<b>First Semester-First Quarter — Exploring the History of Medicine</b>					
Week 1	Day 1	Read pages 4–10 • Exploring the World of Medicine • (EWM)			
	Day 2				
	Day 3	The First Physicians - Questions <b>Medicine Ch 1: Worksheet 1 • Page 17 • Lesson Plan • (LP)</b>			
	Day 4				
	Day 5	Read pages 12–16 • (EWM)			
Week 2	Day 6	Greek Medicine Goes Wrong - Questions <b>Medicine Ch 2: Worksheet 1 • Page 19 • (LP)</b>			
	Day 7				
	Day 8	Read pages 18–22 • (EWM)			
	Day 9				
	Day 10	Fabric of the Body - Questions <b>Medicine Ch 3: Worksheet 1 • Page 21 • (LP)</b>			
Week 3	Day 11				
	Day 12	Read pages 24–30 • (EWM)			
	Day 13				
	Day 14	Father of Modern Surgery - Questions <b>Medicine Ch 4: Worksheet 1 • Page 23 • (LP)</b>			
	Day 15				
Week 4	Day 16	Read pages 32–36 • (EWM)			
	Day 17				
	Day 18	The Living River - Questions <b>Medicine Ch 5: Worksheet 1 • Page 25 • (LP)</b>			
	Day 19				
	Day 20	<b>Medicine Chs 1-5 Quiz 1 • Page 97 • (LP)</b>			
Week 5	Day 21				
	Day 22	Read pages 38–42 • (EWM)			
	Day 23				
	Day 24	The Invisible Kingdom - Questions <b>Medicine Ch 6: Worksheet 1 • Page 27 • (LP)</b>			
	Day 25				
Week 6	Day 26				
	Day 27	Read pages 44–50 • (EWM)			
	Day 28				
	Day 29	Triumph Over Smallpox - Questions <b>Medicine Ch 7: Worksheet 1 • Page 29 • (LP)</b>			
	Day 30				
Week 7	Day 31				
	Day 32	Read pages 52–58 • (EWM)			
	Day 33				
	Day 34	Davy Deadens Pain - Questions <b>Medicine Ch 8: Worksheet 1 • Page 31 • (LP)</b>			
	Day 35				



Date	Day	Assignment	Due Date	✓	Grade
Week 8	Day 36				
	Day 37	Read pages 60–66 • (EWM)			
	Day 38				
	Day 39	Morton Defeats the Pain of Surgery - Questions <b>Medicine Ch 9: Worksheet 1 • Page 33 • (LP)</b>			
	Day 40				
Week 9	Day 41	Read pages 68–74 • (EWM)			
	Day 42				
	Day 43	Death House in Vienna - Questions <b>Medicine Ch 10: Worksheet 1 • Page 35 • (LP)</b>			
	Day 44				
	Day 45	<b>Medicine Chs 6-10 Quiz 2 • Page 99 • (LP)</b>			
First Semester-Second Quarter — <i>Exploring the History of Medicine</i>					
Week 1	Day 46	Read pages 76–84 • (EWM)			
	Day 47				
	Day 48	The Chemist Who Became a Doctor - Questions <b>Medicine Ch 11: Worksheet 1 • Page 37 • (LP)</b>			
	Day 49				
	Day 50	Read pages 86–90 • (EWM)			
Week 2	Day 51	Joseph Lister Fights Infection - Questions <b>Medicine Ch 12: Worksheet 1 • Page 39 • (LP)</b>			
	Day 52				
	Day 53	Read pages 92–96 • (EWM)			
	Day 54				
	Day 55	The Search for Disease Germs - Questions <b>Medicine Ch 13: Worksheet 1 • Page 41 • (LP)</b>			
Week 3	Day 56				
	Day 57	Read pages 98–106 • (EWM)			
	Day 58				
	Day 59	Louis Pasteur Again - Questions <b>Medicine Ch 14: Worksheet 1 • Page 43 • (LP)</b>			
	Day 60				
Week 4	Day 61	Read pages 108–112 • (EWM)			
	Day 62				
	Day 63	Dr. Lind's Limes - Questions <b>Medicine Ch 15: Worksheet 1 • Page 45 • (LP)</b>			
	Day 64				
	Day 65	<b>Medicine Chs 11-15 Quiz 3 • Page 101 • (LP)</b>			
Week 5	Day 66				
	Day 67	Read pages 114–120 • (EWM)			
	Day 68				
	Day 69	The Hidden Hunger - Questions <b>Medicine Ch 16: Worksheet 1 • Page 47 • (LP)</b>			
	Day 70				

Date	Day	Assignment	Due Date	✓	Grade
Week 6	Day 71				
	Day 72	Read pages 122–128 • (EWM)			
	Day 73				
	Day 74	Mysterious Rays - Questions <b>Medicine Ch 17: Worksheet 1 • Page 49 • (LP)</b>			
	Day 75				
Week 7	Day 76				
	Day 77	Read pages 130–134 • (EWM)			
	Day 78				
	Day 79	Useful Radiation - Questions <b>Medicine Ch 18: Worksheet 1 • Page 51 • (LP)</b>			
	Day 80				
Week 8	Day 81	Read pages 136–140 • (EWM)			
	Day 82				
	Day 83	Wonder Drugs - Questions <b>Medicine Ch 19: Worksheet 1 • Page 53 • (LP)</b>			
	Day 84				
	Day 85	Read pages 142–146 • (EWM)			
Week 9	Day 86	Mold Battles Bacteria - Questions <b>Medicine Ch 20: Worksheet 1 • Page 55 • (LP)</b>			
	Day 87				
	Day 88	Read pages 148–152 • (EWM) Medicine in Today's World - Questions <b>Medicine Ch 21: Worksheet 1 • Page 57 • (LP)</b>			
	Day 89				
	Day 90	<b>Medicine Chs 16-21 Quiz 4 • Page 103 • (LP)</b>			
		<b>Medicine Chs 1-21 Test 1 • Page 105 • (LP)</b>			
		Mid-Term Grade			

## Second Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	✓	Grade
Second Semester-Third Quarter — <i>Exploring the World of Biology</i>					
Week 1	Day 91				
	Day 92	Read pages 6–11 • <i>Exploring the World of Biology</i> • (EWB)			
	Day 93				
	Day 94	Read pages 12–14 • (EWB)			
	Day 95				
Week 2	Day 96				
	Day 97	The Hidden Kingdom - Questions <b>Biology Ch 1: Worksheet 1</b> • Page 61 • (LP)			
	Day 98				
	Day 99	The Hidden Kingdom - Questions <b>Biology Ch 1: Worksheet 2</b> • Page 63 • (LP)			
	Day 100				
Week 3	Day 101				
	Day 102	Read pages 16–21 • (EWB)			
	Day 103				
	Day 104	Read pages 22–26 • (EWB)			
	Day 105				
Week 4	Day 106				
	Day 107	The Invisible Kingdom - Questions <b>Biology Ch 2: Worksheet 1</b> • Page 65 • (LP)			
	Day 108				
	Day 109	The Invisible Kingdom - Questions <b>Biology Ch 2: Worksheet 2</b> • Page 67 • (LP)			
	Day 110				
Week 5	Day 111	Read pages 28–36 • (EWB)			
	Day 112				
	Day 113	Exploring Biological Names - Questions <b>Biology Ch 3: Worksheet 1</b> • Page 69 • (LP)			
	Day 114				
	Day 115	<b>Biology Chs 1-3 Quiz 1</b> • Page 109 • (LP)			
Week 6	Day 116				
	Day 117	Read pages 38–46 • (EWB)			
	Day 118				
	Day 119	Growing a Green World - Questions <b>Biology Ch 4: Worksheet 1</b> • Page 71 • (LP)			
	Day 120				
Week 7	Day 121				
	Day 122	Read pages 48–54 • (EWB)			
	Day 123				
	Day 124	Food for Energy and Growth - Questions <b>Biology Ch 5: Worksheet 1</b> • Page 73 • (LP)			
	Day 125				

Date	Day	Assignment	Due Date	✓	Grade
Week 8	Day 126				
	Day 127	Read pages 56–64 • (EWB)			
	Day 128				
	Day 129	Digestion - Questions <b>Biology Ch 6: Worksheet 1 • Page 75 • (LP)</b>			
	Day 130				
Week 9	Day 131	Read pages 66–72 • (EWB)			
	Day 132				
	Day 133	Plant Inventors - Questions <b>Biology Ch 7: Worksheet 1 • Page 77 • (LP)</b>			
	Day 134				
	Day 135	<b>Biology Chs 4-7 Quiz 2 • Page 111 • (LP)</b>			
Second Semester-Fourth Quarter — <i>Exploring the World of Biology</i>					
Week 1	Day 136				
	Day 137	Read pages 74–82 • (EWB)			
	Day 138				
	Day 139	Insects - Questions <b>Biology Ch 8: Worksheet 1 • Page 79 • (LP)</b>			
	Day 140				
Week 2	Day 141				
	Day 142	Read pages 84–90 • (EWB)			
	Day 143				
	Day 144	Spiders and Other Arachnids - Questions <b>Biology Ch 9: Worksheet 1 • Page 81 • (LP)</b>			
	Day 145				
Week 3	Day 146				
	Day 147	Read pages 92–98 • (EWB)			
	Day 148				
	Day 149	Life in Water - Questions <b>Biology Ch 10: Worksheet 1 • Page 83 • (LP)</b>			
	Day 150				
Week 4	Day 151				
	Day 152	Read pages 100–108 • (EWB)			
	Day 153				
	Day 154	Reptiles - Questions <b>Biology Ch 11: Worksheet 1 • Page 85-86 • (LP)</b>			
	Day 155				
Week 5	Day 156				
	Day 157	<b>Biology Chs 8-11 Quiz 3 • Page 113 • (LP)</b>			
	Day 158				
	Day 159	Read pages 110–118 • (EWB)			
	Day 160				

Date	Day	Assignment	Due Date	✓	Grade
Week 6	Day 161				
	Day 162	Birds - Questions <b>Biology Ch 12: Worksheet 1 • Page 87-88 • (LP)</b>			
	Day 163				
	Day 164	Read pages 120–125 • (EWB)			
	Day 165				
Week 7	Day 166				
	Day 167	Read pages 126–130 • (EWB)			
	Day 168				
	Day 169	Mammals - Questions <b>Biology Ch 13: Worksheet 1 • Page 89 • (LP)</b>			
	Day 170				
Week 8	Day 171				
	Day 172	Mammals - Questions <b>Biology Ch 13: Worksheet 2 • Page 91 • (LP)</b>			
	Day 173				
	Day 174	Read Pages 132–140 • (EWB)			
	Day 175				
Week 9	Day 176				
	Day 177	Frauds, Hoaxes and Wishful Thinking - Questions <b>Biology Ch 14: Worksheet 1 • Page 93-94 • (LP)</b>			
	Day 178				
	Day 179	<b>Biology Chs 12-14 Quiz 4 • Page 115 • (LP)</b>			
	Day 180				
		<b>Biology Chs 1-14 Test 1 • Page 117 • (LP)</b>			
		Final Grade			

## Suggested Optional Science Lab

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).

### *Concepts of Medicine & Biology*

We highly recommend the purchase of good microscope and general slide sets. Scientific coloring books may also be helpful.

### *The History of Medicine*

BE-BACKKIT Bacteria Experiment Kit

CM-HUMXRAY True-to-Life Human X-Rays Set

Recommended Microscope Slides:

MS-SETHPAT Human Pathology Slide Set

## Special Projects

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The Exploring series offers a unique perspective filled with biographical, historical, and scientific perspectives. By highlighting the work and relevance of scientists and innovators, students are introduced to the people behind the knowledge and discoveries that continue to impact their world. This provides exceptional learning opportunities above and beyond the worksheets, quizzes, and tests. Below are three areas of possible activities or bonus point projects that can be undertaken to enhance study.

### Biographical

- Select your favorite scientist mentioned in the book and do a research paper on this person's life and/or work. Be sure to include details that enhance the understanding of why they worked in the area of science that they chose, information on their worldview (Christian or secular) and why their work remains relevant.
- There have been some amazing discoveries by women — see if you can find three discoveries by researching at your local library or online at parent-approved sites.

### Historical

- Do three short essays — no more than two typed pages each — on discoveries that laid the groundwork for future science fields or the advancement of knowledge.
- Discover where 25 important discoveries related to mathematics or science took place; mark the map for each place and label with the name of each discovery.
- The Bible contains some amazing mathematical and scientific information. Using the genealogical information in Genesis 5, see if you can calculate how many years took place between creation and the Flood of Noah.

### Scientific

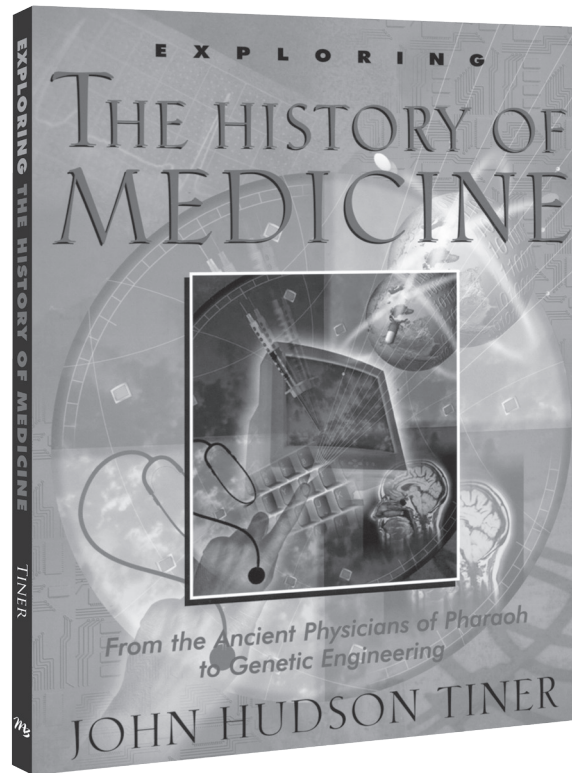
- Imagine an invention related to mathematics, biology, chemistry, or physical science that could change the way you and others live. See if you can visualize your invention by drawing it out or providing details that would enable someone else to understand the relevance of your invention and how it works.

## Applied Learning

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These ideas provide a way for the student to acquire knowledge and then apply it — whether that is done in a technical sense or by being able to recognize the concepts at work in the course of their daily experiences. Consider doing one of the two following options as an opportunity to earn bonus points or to extend the learning process:

- Take a spiral notebook and name it “My Learning Observations.” Then, using the following concepts, mark the date and time you observe each example over a two-week period. Remember, science is happening around you all the time in every day life, so make sure your observations correlate with mathematics, biology, chemistry, or physical science.
- You can keep a running study journal using the words and people to know during your study. By writing down the definition of words, or the contribution of an individual, you can develop a deeper understanding of the subject matter and have notes available when studying for quizzes and exams.



**Medicine Worksheets**  
**for Use with**  
***Exploring the History of Medicine***







*Answer T or F for true or false, or select the letter  
for the phrase that best completes the sentence.*

- T F** 1. The medical discoveries of the Egyptian doctor Imhotep are well-known today.
- A B** 2. The most famous ancient Greek doctor was (A. Plato, B. Hippocrates).
- T F** 3. One of the Greek treatments for disease was to have the sick person dream away the sickness in a pagan temple.
- A B** 4. Older doctors predicted that doctors who followed Hippocrates' teaching would be (A. punished, B. rewarded) by the gods and goddesses.
- A B** 5. The Hippocratic Oath for doctors is (A. a pledge of proper conduct, B. a schedule of prices a doctor should charge).
- A B** 6. The title given to Hippocrates is (A. Father of Greek Philosophy, B. Father of Medicine).
- A B** 7. The most important physician during Roman times was (A. Galen, B. Socrates).
- A B** 8. The city of Alexandria was noted for its huge (A. aqueduct, B. library).
- A B** 9. Galen learned firsthand about the human body from (A. dissecting the bodies of criminals, B. treating injured gladiators).
- T F** 10. When Galen went to Rome, he was put in prison.
- T F** 11. Galen believed that the marvelous complexity of the human body pointed to a Creator.