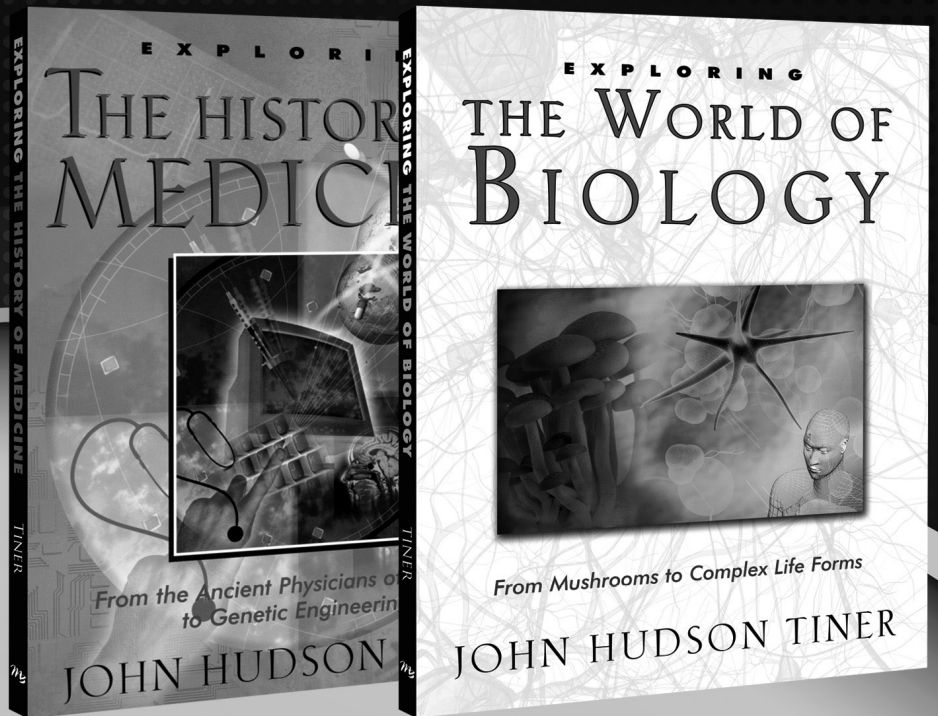






CONCEPTS OF MEDICINE & BIOLOGY

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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Dr. Donald DeYoung and Michael Oard of the Creation Research Society

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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 |

| |
|---|
| <p>Suggested Optional Science Lab See page 13</p> |
|---|

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

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

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

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 |
|---|--------|--|----------|---|-------|
| First Semester-First Quarter — Exploring the History of Medicine | | | | | |
| Week 1 | Day 1 | Read pages 4–10 • Exploring the World of Medicine • (EWM) | | | |
| | Day 2 | | | | |
| | Day 3 | The First Physicians - Questions Medicine Ch 1: Worksheet 1 • Page 17 • Lesson Plan • (LP) | | | |
| | Day 4 | | | | |
| | Day 5 | Read pages 12–16 • (EWM) | | | |
| Week 2 | Day 6 | Greek Medicine Goes Wrong - Questions Medicine Ch 2: Worksheet 1 • Page 19 • (LP) | | | |
| | Day 7 | | | | |
| | Day 8 | Read pages 18–22 • (EWM) | | | |
| | Day 9 | | | | |
| | Day 10 | Fabric of the Body - Questions Medicine Ch 3: Worksheet 1 • Page 21 • (LP) | | | |
| Week 3 | Day 11 | | | | |
| | Day 12 | Read pages 24–30 • (EWM) | | | |
| | Day 13 | | | | |
| | Day 14 | Father of Modern Surgery - Questions Medicine Ch 4: Worksheet 1 • Page 23 • (LP) | | | |
| | Day 15 | | | | |
| Week 4 | Day 16 | Read pages 32–36 • (EWM) | | | |
| | Day 17 | | | | |
| | Day 18 | The Living River - Questions Medicine Ch 5: Worksheet 1 • Page 25 • (LP) | | | |
| | Day 19 | | | | |
| | Day 20 | Medicine Chs 1-5 Quiz 1 • Page 97 • (LP) | | | |
| Week 5 | Day 21 | | | | |
| | Day 22 | Read pages 38–42 • (EWM) | | | |
| | Day 23 | | | | |
| | Day 24 | The Invisible Kingdom - Questions Medicine Ch 6: Worksheet 1 • Page 27 • (LP) | | | |
| | Day 25 | | | | |
| Week 6 | Day 26 | | | | |
| | Day 27 | Read pages 44–50 • (EWM) | | | |
| | Day 28 | | | | |
| | Day 29 | Triumph Over Smallpox - Questions Medicine Ch 7: Worksheet 1 • Page 29 • (LP) | | | |
| | Day 30 | | | | |
| Week 7 | Day 31 | | | | |
| | Day 32 | Read pages 52–58 • (EWM) | | | |
| | Day 33 | | | | |
| | Day 34 | Davy Deadens Pain - Questions Medicine Ch 8: Worksheet 1 • Page 31 • (LP) | | | |
| | 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 Medicine Ch 9: Worksheet 1 • Page 33 • (LP) | | | |
| | Day 40 | | | | |
| Week 9 | Day 41 | Read pages 68–74 • (EWM) | | | |
| | Day 42 | | | | |
| | Day 43 | Death House in Vienna - Questions Medicine Ch 10: Worksheet 1 • Page 35 • (LP) | | | |
| | Day 44 | | | | |
| | Day 45 | Medicine Chs 6-10 Quiz 2 • Page 99 • (LP) | | | |
| 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 Medicine Ch 11: Worksheet 1 • Page 37 • (LP) | | | |
| | Day 49 | | | | |
| | Day 50 | Read pages 86–90 • (EWM) | | | |
| Week 2 | Day 51 | Joseph Lister Fights Infection - Questions Medicine Ch 12: Worksheet 1 • Page 39 • (LP) | | | |
| | Day 52 | | | | |
| | Day 53 | Read pages 92–96 • (EWM) | | | |
| | Day 54 | | | | |
| | Day 55 | The Search for Disease Germs - Questions Medicine Ch 13: Worksheet 1 • Page 41 • (LP) | | | |
| Week 3 | Day 56 | | | | |
| | Day 57 | Read pages 98–106 • (EWM) | | | |
| | Day 58 | | | | |
| | Day 59 | Louis Pasteur Again - Questions Medicine Ch 14: Worksheet 1 • Page 43 • (LP) | | | |
| | Day 60 | | | | |
| Week 4 | Day 61 | Read pages 108–112 • (EWM) | | | |
| | Day 62 | | | | |
| | Day 63 | Dr. Lind's Limes - Questions Medicine Ch 15: Worksheet 1 • Page 45 • (LP) | | | |
| | Day 64 | | | | |
| | Day 65 | Medicine Chs 11-15 Quiz 3 • Page 101 • (LP) | | | |
| Week 5 | Day 66 | | | | |
| | Day 67 | Read pages 114–120 • (EWM) | | | |
| | Day 68 | | | | |
| | Day 69 | The Hidden Hunger - Questions Medicine Ch 16: Worksheet 1 • Page 47 • (LP) | | | |
| | 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 Medicine Ch 17: Worksheet 1 • Page 49 • (LP) | | | |
| | Day 75 | | | | |
| Week 7 | Day 76 | | | | |
| | Day 77 | Read pages 130–134 • (EWM) | | | |
| | Day 78 | | | | |
| | Day 79 | Useful Radiation - Questions Medicine Ch 18: Worksheet 1 • Page 51 • (LP) | | | |
| | Day 80 | | | | |
| Week 8 | Day 81 | Read pages 136–140 • (EWM) | | | |
| | Day 82 | | | | |
| | Day 83 | Wonder Drugs - Questions Medicine Ch 19: Worksheet 1 • Page 53 • (LP) | | | |
| | Day 84 | | | | |
| | Day 85 | Read pages 142–146 • (EWM) | | | |
| Week 9 | Day 86 | Mold Battles Bacteria - Questions Medicine Ch 20: Worksheet 1 • Page 55 • (LP) | | | |
| | Day 87 | | | | |
| | Day 88 | Read pages 148–152 • (EWM) Medicine in Today's World - Questions Medicine Ch 21: Worksheet 1 • Page 57 • (LP) | | | |
| | Day 89 | | | | |
| | Day 90 | Medicine Chs 16-21 Quiz 4 • Page 103 • (LP) | | | |
| | | Medicine Chs 1-21 Test 1 • Page 105 • (LP) | | | |
| | | 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 Biology Ch 1: Worksheet 1 • Page 61 • (LP) | | | |
| | Day 98 | | | | |
| | Day 99 | The Hidden Kingdom - Questions Biology Ch 1: Worksheet 2 • 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 Biology Ch 2: Worksheet 1 • Page 65 • (LP) | | | |
| | Day 108 | | | | |
| | Day 109 | The Invisible Kingdom - Questions Biology Ch 2: Worksheet 2 • Page 67 • (LP) | | | |
| | Day 110 | | | | |
| Week 5 | Day 111 | Read pages 28–36 • (EWB) | | | |
| | Day 112 | | | | |
| | Day 113 | Exploring Biological Names - Questions Biology Ch 3: Worksheet 1 • Page 69 • (LP) | | | |
| | Day 114 | | | | |
| | Day 115 | Biology Chs 1-3 Quiz 1 • Page 109 • (LP) | | | |
| Week 6 | Day 116 | | | | |
| | Day 117 | Read pages 38–46 • (EWB) | | | |
| | Day 118 | | | | |
| | Day 119 | Growing a Green World - Questions Biology Ch 4: Worksheet 1 • 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 Biology Ch 5: Worksheet 1 • 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 Biology Ch 6: Worksheet 1 • Page 75 • (LP) | | | |
| | Day 130 | | | | |
| Week 9 | Day 131 | Read pages 66–72 • (EWB) | | | |
| | Day 132 | | | | |
| | Day 133 | Plant Inventors - Questions Biology Ch 7: Worksheet 1 • Page 77 • (LP) | | | |
| | Day 134 | | | | |
| | Day 135 | Biology Chs 4-7 Quiz 2 • Page 111 • (LP) | | | |
| 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 Biology Ch 8: Worksheet 1 • Page 79 • (LP) | | | |
| | Day 140 | | | | |
| Week 2 | Day 141 | | | | |
| | Day 142 | Read pages 84–90 • (EWB) | | | |
| | Day 143 | | | | |
| | Day 144 | Spiders and Other Arachnids - Questions Biology Ch 9: Worksheet 1 • Page 81 • (LP) | | | |
| | Day 145 | | | | |
| Week 3 | Day 146 | | | | |
| | Day 147 | Read pages 92–98 • (EWB) | | | |
| | Day 148 | | | | |
| | Day 149 | Life in Water - Questions Biology Ch 10: Worksheet 1 • Page 83 • (LP) | | | |
| | Day 150 | | | | |
| Week 4 | Day 151 | | | | |
| | Day 152 | Read pages 100–108 • (EWB) | | | |
| | Day 153 | | | | |
| | Day 154 | Reptiles - Questions Biology Ch 11: Worksheet 1 • Page 85-86 • (LP) | | | |
| | Day 155 | | | | |
| Week 5 | Day 156 | | | | |
| | Day 157 | Biology Chs 8-11 Quiz 3 • Page 113 • (LP) | | | |
| | 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 Biology Ch 12: Worksheet 1 • Page 87-88 • (LP) | | | |
| | 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 Biology Ch 13: Worksheet 1 • Page 89 • (LP) | | | |
| | Day 170 | | | | |
| Week 8 | Day 171 | | | | |
| | Day 172 | Mammals - Questions Biology Ch 13: Worksheet 2 • Page 91 • (LP) | | | |
| | Day 173 | | | | |
| | Day 174 | Read Pages 132–140 • (EWB) | | | |
| | Day 175 | | | | |
| Week 9 | Day 176 | | | | |
| | Day 177 | Frauds, Hoaxes and Wishful Thinking - Questions Biology Ch 14: Worksheet 1 • Page 93-94 • (LP) | | | |
| | Day 178 | | | | |
| | Day 179 | Biology Chs 12-14 Quiz 4 • Page 115 • (LP) | | | |
| | Day 180 | | | | |
| | | Biology Chs 1-14 Test 1 • Page 117 • (LP) | | | |
| | | 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.

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

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.

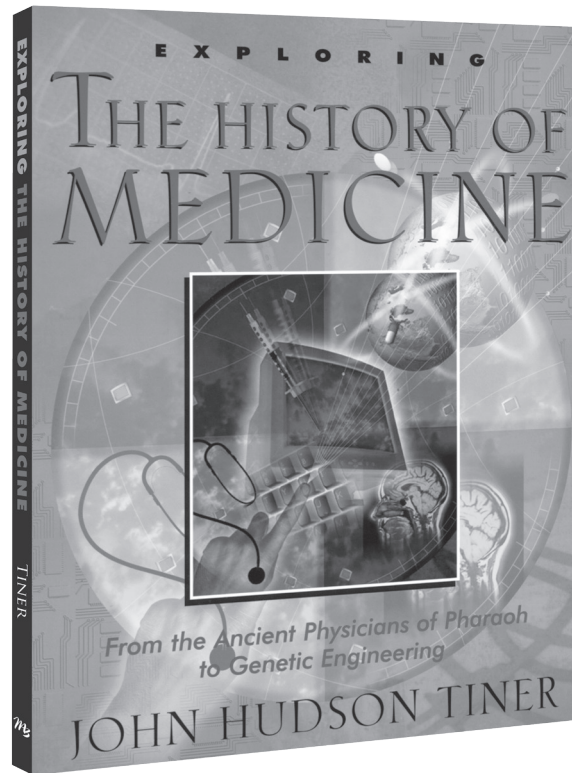
Scientific

- 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

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.