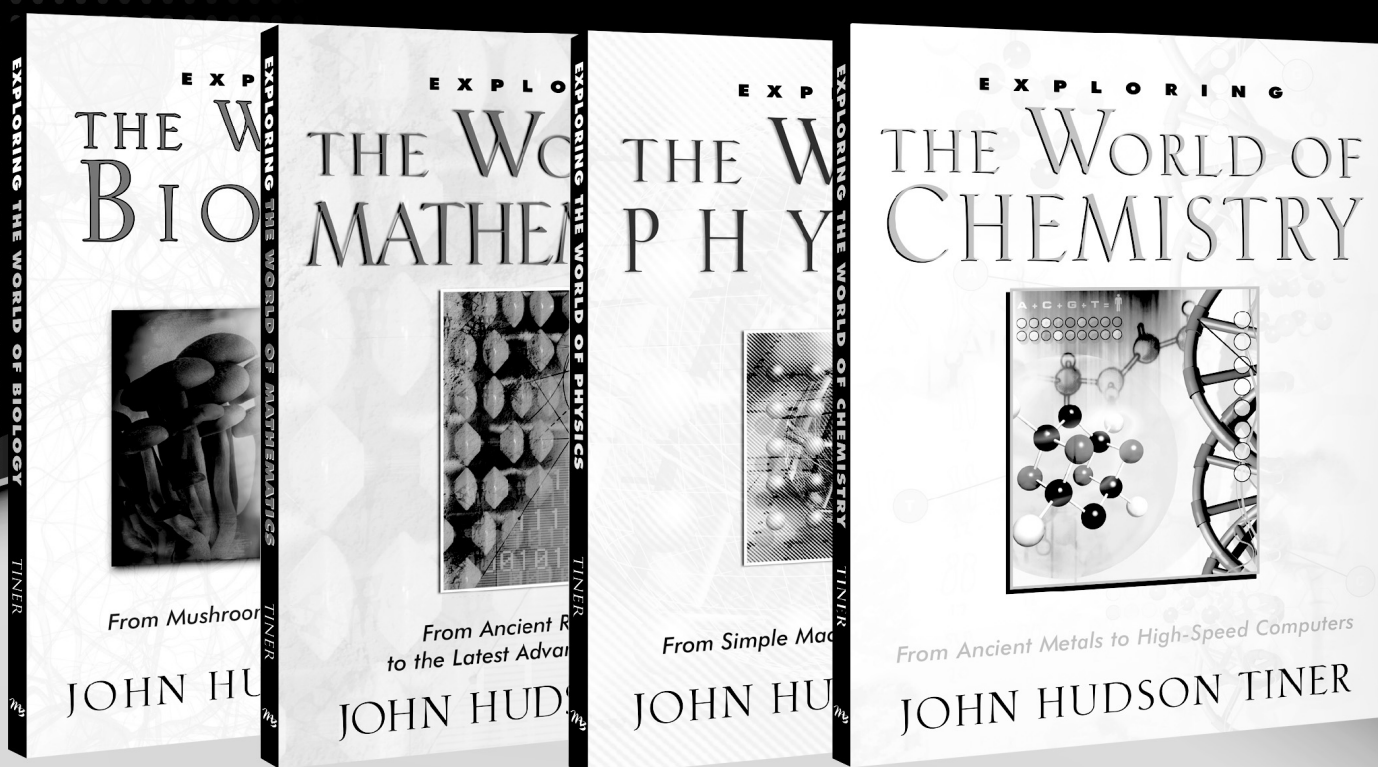






SURVEY OF SCIENCE HISTORY & CONCEPTS

Parent Lesson Planner (PLP)



-  Weekly Lesson Schedule
-  Student Worksheets
-  Quizzes & Test
-  Answer Key

10th – 12th grade

1 Year
Science

1 Credit

First printing: April 2013
Second printing: August 2013

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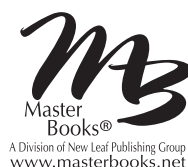
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Unless otherwise noted, Scripture quotations are from the New King James Version of the Bible.

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Since 1975, Master Books has been providing educational resources based on a biblical worldview to students of all ages. At the heart of these resources is our firm belief in a literal six-day creation, a young earth, the global Flood as revealed in Genesis 1–11, and other vital evidence to help build a critical foundation of scriptural authority for everyone. By equipping students with biblical truths and their key connection to the world of science and history, it is our hope they will be able to defend their faith in a skeptical, fallen world.

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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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.

Survey of Science History & Concepts

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

The World of Biology

DE-KIT01 Introductory Dissection Kit

PM-OWLKIT Owl Pellet Study Kit

LM-BFLYGAR Butterfly Garden

Recommended Microscope Slides:

MS-SETBIO Biology Slide Set

The World of Chemistry

CM-ELEMATS Laminated Placemat Size Chart-The Elements Periodic Tables

KT-CHEM1K Chem C1000 Kit

The World of Physics





KT-PHASKIT Physics Workshop Kit

Contents

Overview and Concepts	6 & 7
Suggested Daily Schedules.....	8
<i>Exploring the World of Mathematics</i> Worksheets.....	15
<i>Exploring the World of Physics</i> Worksheets	45
<i>Exploring the World of Biology</i> Worksheets.....	75
<i>Exploring the World of Chemistry</i> Worksheets.....	105
Quizzes and Tests	
<i>Exploring the World of Mathematics</i> Quizzes	139
<i>Exploring the World of Mathematics</i> Test	149
<i>Exploring the World of Physics</i> Quizzes	153
<i>Exploring the World of Physics</i> Test	163
<i>Exploring the World of Biology</i> Quizzes	167
<i>Exploring the World of Biology</i> Test	175
<i>Exploring the World of Chemistry</i> Quizzes	179
<i>Exploring the World of Chemistry</i> Test	187
Answer Keys	
<i>Exploring the World of Mathematics</i> Worksheets.....	192
<i>Exploring the World of Physics</i> Worksheets.....	194
<i>Exploring the World of Biology</i> Worksheets.....	197
<i>Exploring the World of Chemistry</i> Worksheets.....	200
<i>Exploring the World of Mathematics</i> Quizzes	201
<i>Exploring the World of Mathematics</i> Test	204
<i>Exploring the World of Physics</i> Quizzes	205
<i>Exploring the World of Physics</i> Test	207
<i>Exploring the World of Biology</i> Quizzes	208
<i>Exploring the World of Biology</i> Test	210
<i>Exploring the World of Chemistry</i> Quizzes	211
<i>Exploring the World of Chemistry</i> Test	213

Lessons for a 36-week course!






Overview: This *Survey of Science History & Concepts* contains materials for use with *Exploring the World of Mathematics*, *Exploring the World of Physics*, *Exploring the World of Biology*, and *Exploring the World of Chemistry*. Materials are organized by each book in the following sections:

	Study guide worksheets
	Quizzes
	Semester Test & Final Exams
	Answer Key

Features: Each suggested weekly schedule has three to four easy-to-manage lessons that combine reading, worksheets, and vocabulary building opportunities. 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 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, three to four 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 10 to 12 in a one-year course to earn 1 science credit.

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

John Hudson Tiner — *Exploring the World of Mathematics*, *Exploring the World of Physics*

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.

Survey of Science History & Concepts

Course Description

Students will study four areas of science: Scientific Mathematics, Physics, Biology, and Chemistry. Students will gain an appreciation for how each subject has affected our lives, and for the people God revealed wisdom to as they sought to understand Creation. Each content area is thoroughly explored, giving students a good foundation in each discipline.

Semester 1: Math and Physics

Numbers surround us. Just try to make it through a day without using any. It's impossible: telephone numbers, calendars, volume settings, shoe sizes, speed limits, weights, street numbers, microwave timers, TV channels, and the list goes on and on. The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them. It's amazing how ten simple digits can be used in an endless number of ways to benefit man. The development of these ten digits and their many uses is the fascinating story in *Exploring the World of Mathematics*.

Physics is a branch of science that many people consider to be too complicated to understand. John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend. Did you know that a feather and a lump of lead will fall at the same rate in a vacuum? Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances. Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space. Learn about the effects of inertia first hand during fun and informative experiments. *Exploring the World of Physics* is a great tool for students who want to have a deeper understanding of the important and interesting ways that physics affects our lives.

Semester 2: Biology and Chemistry

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. Starting in the 1990s, biologists have extracted 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.

Chemistry is an amazing branch of science that affects us every day, yet few people realize it, or even give it much thought. Without chemistry, there would be nothing made of plastic, there would be no rubber tires, no tin cans, no televisions, no microwave ovens, or something as simple as wax paper. This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers. Find out why pure gold is not used for jewelry or coins. Join Humphry Davy as he made many chemical discoveries, and learn how they shortened his life. See how people in the 1870s could jump over the top of the Washington Monument. *Exploring the World of Chemistry* brings science to life and is a wonderful learning tool with many illustrations and biographical information.

First Semester Suggested Daily Schedule

Date	Day	Assignment	Due Date	✓	Grade
First Semester-First Quarter — <i>Exploring the World of Mathematics</i>					
Week 1	Day 1	Review Special Project options on page 14 and plan accordingly.			
	Day 2	Read Pages 4-12 • <i>Exploring the World of Mathematics</i> (EWM)			
	Day 3	Counting Years Ch1: Worksheet 1 • Page 17 • Lesson Plan • (LP)			
	Day 4	Read Pages 14-22 • (EWM)			
	Day 5				
Week 2	Day 6	Counting the Hours Ch2: Worksheet 1 • Page 19 • (LP)			
	Day 7	Read Pages 24-34 • (EWM)			
	Day 8	Muddled Measuring Ch3: Worksheet 1 • Page 21 • (LP)			
	Day 9				
	Day 10				
Week 3	Day 11	Read Pages 36-44 • (EWM)			
	Day 12	Measuring by Metric Ch4: Worksheet 1 • Page 23 • (LP)			
	Day 13	Chapters 1-4 Quiz 1 • Page 139 • (LP)			
	Day 14	Read Pages 46-52 • (EWM)			
	Day 15				
Week 4	Day 16	Practical Mathematics Ch5: Worksheet 1 • Page 25 • (LP)			
	Day 17	Read Pages 54-62 • (EWM)			
	Day 18	The Greek Way With Math Ch6: Worksheet 1 • Page 27 • (LP)			
	Day 19	Read Pages 64-72 • (EWM)			
	Day 20				
Week 5	Day 21	Names for Numbers Ch7: Worksheet 1 • Page 29 • (LP)			
	Day 22	Read Pages 74-82 • (EWM)			
	Day 23	Number Patterns Ch8: Worksheet 1 • Page 31 • (LP)			
	Day 24	Chapters 5-8 Quiz 2 • Page 141 • (LP)			
	Day 25				
Week 6	Day 26	Read Pages 84-94 • (EWM)			
	Day 27	Endless Numbers Ch9: Worksheet 1 • Page 33 • (LP)			
	Day 28	Read Pages 96-106 • (EWM)			
	Day 29	Math for Scientists Ch10: Worksheet 1 • Page 35 • (LP)			
	Day 30				

Date	Day	Assignment	Due Date	✓	Grade
Week 7	Day 31	Read Pages 108-118 • (EWM)			
	Day 32	Pure and Applied Math Ch11: Worksheet 1 • Page 37 • (LP)			
	Day 33	Chapters 9-11 Quiz 3 • Page 143 • (LP)			
	Day 34	Read Pages 120-130 • (EWM)			
	Day 35				
Week 8	Day 36	Computing Machines Ch12: Worksheet 1 • Page 39 • (LP)			
	Day 37	Read Pages 132-140 • (EWM)			
	Day 38	Bits and Bytes Ch13: Worksheet 1 • Page 41 • (LP)			
	Day 39	Read Pages 142-152 • (EWM)			
	Day 40				
Week 9	Day 41	Math on Vacation Ch14: Worksheet 1 • Page 43 • (LP)			
	Day 42	Chapter 12-14 Quiz 4 • Page 147 • (LP)			
	Day 43	Chapter 1-14 Study Day			
	Day 44	Chapter 1-14 Test 1 • Page 149 • (LP)			
	Day 45				
First Semester-Second Quarter — <i>Exploring the World of Physics</i>					
Week 1	Day 46	Read Pages 4-12 • Exploring the World of Physics (EWP)			
	Day 47	Motion Ch1: Worksheet 1 • Page 47 • Lesson Plan • (LP)			
	Day 48	Read Pages 14-22 • (EWP)			
	Day 49	Laws of Motion Ch2: Worksheet 1 • Page 49 • (LP)			
	Day 50				
Week 2	Day 51	Read Pages 24-32 • (EWP)			
	Day 52	Gravity Ch3: Worksheet 1 • Page 51 • (LP)			
	Day 53	Read Pages 34-40 • (EWP)			
	Day 54	Simple Machines Ch4: Worksheet 1 • Page 53 • (LP)			
	Day 55				
Week 3	Day 56	Chapters 1-4 Quiz 1 • Page 153 • (LP)			
	Day 57	Read Pages 42-52 • (EWP)			
	Day 58	Energy Ch5: Worksheet 1 • Page 55 • (LP)			
	Day 59				
	Day 60				

Date	Day	Assignment	Due Date	✓	Grade
Week 4	Day 61	Read Pages 54-64 • (EWP)			
	Day 62	Heat Ch6: Worksheet 1 • Page 57 • (LP)			
	Day 63	Read Pages 66-76 • (EWP)			
	Day 64	States of Matter Ch7: Worksheet 1 • Page 59 • (LP)			
	Day 65				
Week 5	Day 66	Chapters 5-7 Quiz 2 • Page 155 • (LP)			
	Day 67	Read Pages 78-88 • (EWP)			
	Day 68	Wave Motion Ch8: Worksheet 1 • Page 61 • (LP)			
	Day 69				
	Day 70				
Week 6	Day 71	Read Pages 90-100 • (EWP)			
	Day 72	Light Ch9: Worksheet 1 • Page 63 • (LP)			
	Day 73	Read Pages 102-110 • (EWP)			
	Day 74	Electricity Ch10: Worksheet 1 • Page 65 • (LP)			
	Day 75				
Week 7	Day 76	Chapters 8-10 Quiz 3 • Page 157 • (LP)			
	Day 77	Read Pages 112-122 • (EWP)			
	Day 78	Magnetism Ch11: Worksheet 1 • Page 67 • (LP)			
	Day 79				
	Day 80				
Week 8	Day 81	Read Pages 124-134 • (EWP)			
	Day 82	Electromagnetism Ch12: Worksheet 1 • Page 69 • (LP)			
	Day 83	Read Pages 136-142 • (EWP)			
	Day 84				
	Day 85				
Week 9	Day 86	Nuclear Energy Ch13: Worksheet 1 • Page 71 • (LP)			
	Day 87	Read Pages 144-152 • (EWP)			
	Day 88	Future Physics Ch14: Worksheet 1 • Page 73 • (LP)			
	Day 89	Chapters 11-14 Quiz 4 • Page 161 • (LP)			
	Day 90	Chapters 1-14 Test 1 • Page 163 • (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	Read Pages 6-14 • <i>Exploring the World of Biology</i> (EWB)			
	Day 92	The Hidden Kingdom Ch1: Worksheet 1 • Page 77 • (LP)			
	Day 93	Read Pages 16-26 • (EWB)			
	Day 94				
	Day 95				
Week 2	Day 96	The Invisible Kingdom Ch2: Worksheet 1 • Page 79 • (LP)			
	Day 97	Read Pages 28-36 • (EWB)			
	Day 98	Exploring Biological Names Ch3: Worksheet 1 • Page 81 • (LP)			
	Day 99				
	Day 100	Chapters 1-3 Quiz 1 • Page 167 • (LP)			
Week 3	Day 101	Read Pages 38-46 • (EWB)			
	Day 102	Growing a Green World Ch4: Worksheet 1 • Page 83 • (LP)			
	Day 103	Read Pages 48-54 • (EWB)			
	Day 104	Food for Energy and Growth Ch5: Worksheet 1 • Page 85 • (LP)			
	Day 105				
Week 4	Day 106	Read Pages 56-64 • (EWB)			
	Day 107	Digestion Ch6: Worksheet 1 • Page 87 • (LP)			
	Day 108	Read Pages 66-72 • (EWB)			
	Day 109	Plant Innovators Ch7: Worksheet 1 • Page 89 • (LP)			
	Day 110				
Week 5	Day 111	Chapters 4-7 Quiz 2 • Page 169 • (LP)			
	Day 112	Read Pages 74-82 • (EWB)			
	Day 113	Insects Ch8: Worksheet 1 • Page 91 • (LP)			
	Day 114				
	Day 115				
Week 6	Day 116	Read Pages 84-90 • (EWB)			
	Day 117	Spiders & Other Arachnids Ch9: Worksheet 1 • Page 93 • (LP)			
	Day 118	Read Pages 92-98 • (EWB)			
	Day 119	Life in Water Ch10: Worksheet 1 • Page 95 • (LP)			
	Day 120				

Date	Day	Assignment	Due Date	✓	Grade
Week 7	Day 121	Read Pages 100-108 • (EWB)			
	Day 122	Reptiles Ch11: Worksheet 1 • Page 97 • (LP)			
	Day 123	Chapters 8-11 Quiz 3 • Page 171 • (LP)			
	Day 124	Read Pages 110-118 • (EWB)			
	Day 125				
Week 8	Day 126	Birds Ch12: Worksheet 1 • Page 99 • (LP)			
	Day 127	Read Pages 120-130 • (EWB)			
	Day 128	Mammals Ch13: Worksheet 1 • Page 101 • (LP)			
	Day 129	Read Pages 132-140 • (EWB)			
	Day 130				
Week 9	Day 131	Frauds, Hoaxes, & Wishful Thinking Ch14: Worksheet 1 • Page 103 • (LP)			
	Day 132	Chapters 12-14 Quiz 4 • Page 173 • (LP)			
	Day 133	Study Day Chapter 1-14			
	Day 134				
	Day 135	Chapters 1-14 Test 1 • Page 175 • (LP)			
Second Semester-Fourth Quarter — <i>Exploring the World of Chemistry</i>					
Week 1	Day 136	Read Pages 4-10 • Exploring the World of Chemistry (EWC)			
	Day 137	Ancient Metals Ch1: Worksheet 1 • Page 107 • (LP)			
	Day 138	Read Pages 12-16 • (EWC)			
	Day 139	The Money Metals Ch2: Worksheet 1 • Page 109 • (LP)			
	Day 140				
Week 2	Day 141	Read Pages 18-26 • (EWC)			
	Day 142	The Search for Gold Ch3: Worksheet 1 • Page 111 • (LP)			
	Day 143	Read Pages 28-34 • (EWC)			
	Day 144	Gases in the Air Ch4: Worksheet 1 • Page 113 • (LP)			
	Day 145				
Week 3	Day 146	Chapters 1-4 Quiz 1 • Page 179 • (LP)			
	Day 147	Read Pages 36-42 • (EWC)			
	Day 148	Electricity to the Rescue Ch5: Worksheet 1 • Page 115 • (LP)			
	Day 149	Read Pages 44-50 • (EWC)			
	Day 150				

Date	Day	Assignment	Due Date	✓	Grade
Week 4	Day 151	Search for Order Ch6: Worksheet 1 • Page 117 • (LP)			
	Day 152	Read Pages 52-60 • (EWC)			
	Day 153	Sunlight Shows the Way Ch7: Worksheet 1 • Page 119 • (LP)			
	Day 154	Read Pages 62-68 • (EWC)			
	Day 155				
Week 5	Day 156	The Electron Shows the Way Ch8: Worksheet 1 • Page 121 • (LP)			
	Day 157	Chapters 5-8 Quiz 2 • Page 181 • (LP)			
	Day 158	Read Pages 70-76 • (EWC)			
	Day 159	Compounds by Electric Attraction Ch9: Worksheet 1 • Page 123 • (LP)			
	Day 160				
Week 6	Day 161	Chapter 10: Water-Read Pages 78-84			
	Day 162	Water Ch10: Worksheet 1 • Page 125 • (LP)			
	Day 163	Read Pages 86-94 • (EWC)			
	Day 164	Carbon and Its Compounds Ch11: Worksheet 1 • Page 127 • (LP)			
	Day 165				
Week 7	Day 166	Read Pages 96-102 • (EWC)			
	Day 167	Organic Chemistry Ch12: Worksheet 1 • Page 129 • (LP)			
	Day 168	Chapters 9-12 Quiz 3 • Page 183 • (LP)			
	Day 169	Read Pages 104-110 • (EWC)			
	Day 170				
Week 8	Day 171	Nitrogen and Its Compounds Ch13: Worksheet 1 • Page 131 • (LP)			
	Day 172	Read Pages 112-118 • (EWC)			
	Day 173	Silicon and Its Compounds Ch14: Worksheet 1 • Page 133 • (LP)			
	Day 174	Read Pages 120-126 • (EWC)			
	Day 175				
Week 9	Day 176	Modern Metals Ch15: Worksheet 1 • Page 135 • (LP)			
	Day 177	Read Pages 128-134 • (EWC)			
	Day 178	Chemistry in Today's World Ch16: Worksheet 1 • Page 137 • (LP)			
	Day 179	Chapters 13-16 Quiz 4 • Page 185 • (LP)			
	Day 180	Chapters 1-16 Test 1 • Page 187 • (LP)			
		Final Grade			

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.

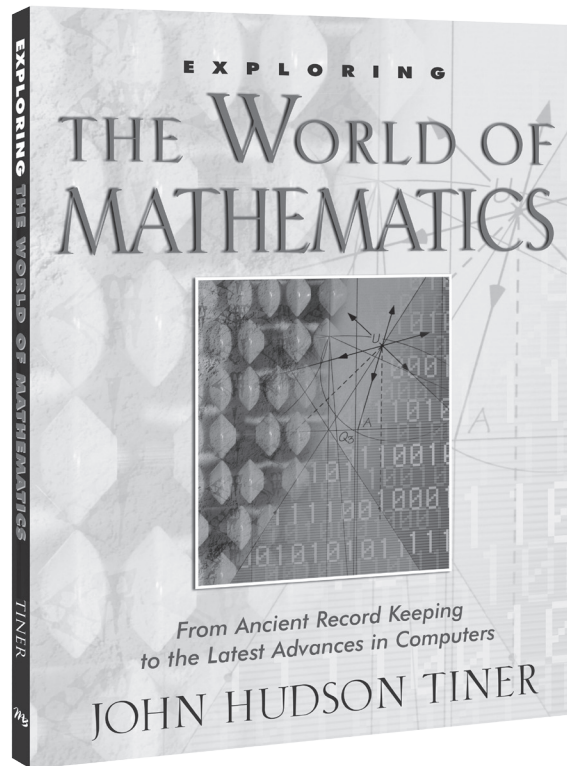
Scientific

- 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.



Mathematics Worksheets

for Use with

Exploring the World of Mathematics



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

- T F** 1. The extra day, or leap day, every four years was put in the calendar to honor Augustus Caesar.
- T F** 2. The Gregorian calendar has 100 leap days every 400 years.
3. What is the main reason to have leap days?
- A B C D** 4. The first calendar with a leap day every four years was the one
- A. authorized by Julius Caesar
 - B. used by the American colonies after 1752
 - C. used by the Babylonians
 - D. used by the Egyptians

Matching

- | | |
|-----------------|---|
| 5. _____ day | a. due to the tilt of the earth's axis, equal to three months |
| 6. _____ week | b. earth revolves around the sun once |
| 7. _____ month | c. earth rotates on its axis once |
| 8. _____ season | d. moon revolves around the earth once |
| 9. _____ year | e. seven days |

Try Your Math

10. The Bible says that Methuselah died at age 969 years (Gen. 5:27). What would be that age in days? (Ignore leap years.)
11. Using the Babylonian calendar of 360 days in a year, how many days are in one-third of a year; one-fifth of a year; one-twentieth of a year; one-sixtieth of a year?
12. Find the population of your city and calculate how many people are likely to have a birthday on February 29.