

# Algebra 1 Standard Lesson Plan Overview

This Standard Lesson Plan allocates 82 days for each semester.

**Test Packet**, supplementary material to *Student Text* and *Teacher's Edition*

**Student Activities**, supplementary material to *Student Text* and *Teacher's Edition*

**Teacher's Toolkit CD**, included in *Teacher's Edition*

\*Bible Integration topics covered in the *Teacher's Edition* or *Student Activities*

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 1: Real Number Operations</b>				
1	Introduction	viii–ix		<ul style="list-style-type: none"> <li>the complexity of God's created universe</li> <li>the benefits of diligence</li> <li>the Dominion Mandate</li> </ul>
2	1.1 Sets of Numbers	1–6	<ul style="list-style-type: none"> <li><b>Dominion Mandate: God's Command to Humanity</b></li> </ul>	<ul style="list-style-type: none"> <li>the underlying order in apparent chaos illustrated by fractals*</li> </ul>
3	1.2 Number Lines, Opposites, and Absolute Values	7–11	<ul style="list-style-type: none"> <li><b>Prime Numbers</b></li> </ul>	<ul style="list-style-type: none"> <li>God's infinite existence</li> </ul>
4	Sequences—Evens, Odds, and Multiples	12	<ul style="list-style-type: none"> <li><b>Quiz 1 (1.1–1.2)</b></li> </ul>	<ul style="list-style-type: none"> <li>pattern recognition in God's creation</li> </ul>
5	1.3 Adding Rational Numbers	13–17		
6	1.4 Subtracting Rational Numbers Careers in Math—Mathematician	18–22	<ul style="list-style-type: none"> <li><b>Math History: Modern Symbols Introduced Before 1600</b></li> </ul>	<ul style="list-style-type: none"> <li>glorifying God and demonstrating love for others through our occupations</li> </ul>
7	1.5 Multiplying Rational Numbers	22–27	<ul style="list-style-type: none"> <li><b>Quiz 2 (1.3–1.4)</b></li> <li><b>Dominion Modeling: Constructing a 3D Fractal</b></li> <li><b>Properties of Set Operations</b></li> </ul>	<ul style="list-style-type: none"> <li>fractals can model the intricate design of God's creation and create beautiful art*</li> </ul>
8	1.6 Dividing Rational Numbers	28–33	<ul style="list-style-type: none"> <li><b>Operations with Rational Numbers</b></li> </ul>	
9	1.7 Exponents	33–37	<ul style="list-style-type: none"> <li><b>Quiz 3 (1.5–1.6)</b></li> </ul>	
10	1.8 Order of Operations Technology Corner	38–41	<ul style="list-style-type: none"> <li><b>Using Technology: Introduction to the TI-84+</b></li> <li><b>Order of Operations</b></li> </ul>	<ul style="list-style-type: none"> <li>better understanding God's creation and implementing solutions to problems</li> </ul>
11	Chapter 1 Review	42–43	<ul style="list-style-type: none"> <li><b>Quiz 4 (1.7–1.8)</b></li> <li><b>Mathardy: Ch. 1</b></li> <li><b>Chapter 1 Review</b></li> <li><b>Cumulative Review 1</b></li> </ul>	
12	<b>Chapter 1 Test</b>			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 2: Variables and Equations</b>				
13	2.1 Variables and Algebraic Expressions	44–50	<ul style="list-style-type: none"> <li>• <b>Dominion Mandate: Constants and Variables</b></li> </ul>	<ul style="list-style-type: none"> <li>• fulfilling God’s command to be wise stewards of His resources</li> <li>• trusting in God’s unchanging character*</li> </ul>
14	2.2 Evaluating Algebraic Expressions Technology Corner	51–56		
15	2.3 Using the Distributive Property	56–61	<ul style="list-style-type: none"> <li>• <b>Quiz 1 (2.1–2.2)</b></li> <li>• <b>Using the Distributive Property</b></li> <li>• <b>Algebraic Expressions and Translation</b></li> </ul>	
16	2.1–2.3 review Math in History—Isaac Newton	62		<ul style="list-style-type: none"> <li>• the danger of placing human reasoning above scriptural revelation</li> </ul>
17	2.4 Solving One-Step Equations	63–68	<ul style="list-style-type: none"> <li>• <b>Math History: Al-Khwarizmi</b></li> <li>• <b>Equations 1</b></li> </ul>	<ul style="list-style-type: none"> <li>• dealing justly in our interactions with others*</li> </ul>
18	2.5 Solving Two-Step Equations	68–74	<ul style="list-style-type: none"> <li>• <b>Quiz 2 (2.3–2.4)</b></li> </ul>	<ul style="list-style-type: none"> <li>• the importance of planning*</li> </ul>
19	2.6 Simplifying Equations	74–78	<ul style="list-style-type: none"> <li>• <b>Inverse Operations</b></li> </ul>	
20	Sequences—Arithmetic Sequences	79	<ul style="list-style-type: none"> <li>• <b>Quiz 3 (2.5–2.6)</b></li> </ul>	
21	2.7 Solving Multi-Step Equations	80–84	<ul style="list-style-type: none"> <li>• <b>Using Technology: Editing</b></li> </ul>	
22	2.8 Eliminating Fractions and Decimals	84–89	<ul style="list-style-type: none"> <li>• <b>Equations 2</b></li> <li>• <b>GCF and LCM</b></li> </ul>	
23				
24	Chapter 2 Review	90–91	<ul style="list-style-type: none"> <li>• <b>Quiz 4 (2.7–2.8)</b></li> <li>• <b>Mathardy: Ch. 2</b></li> <li>• <b>Chapter 2 Review</b></li> <li>• <b>Cumulative Review 2</b></li> </ul>	
25	<b>Chapter 2 Test</b>			

<b>Chapter 3: Using Equations</b>				
26	3.1 Solving Literal Equations	92–98	<ul style="list-style-type: none"> <li>• <b>Math History: Fibonacci</b></li> <li>• <b>Literal Equations</b></li> </ul>	<ul style="list-style-type: none"> <li>• wise management of God-given resources</li> </ul>
27				
28	3.2 Ratios and Proportions	98–103	<ul style="list-style-type: none"> <li>• <b>Dominion Mandate: Numbers in Creation</b></li> <li>• <b>Unit Prices and Best Buys</b></li> </ul>	<ul style="list-style-type: none"> <li>• discovering occurrences of the Fibonacci sequence and the golden ratio in nature*</li> </ul>
29	Sequences—Fibonacci and Golden Ratio Sequences Technology Corner	104–5	<ul style="list-style-type: none"> <li>• <b>Quiz 1 (3.1–3.2)</b></li> </ul>	<ul style="list-style-type: none"> <li>• praising God for the beauty and complexity of creation</li> </ul>
30	3.3 Similar Figures and Scale Models	105–11	<ul style="list-style-type: none"> <li>• <b>Scales for Maps and Drawings</b></li> </ul>	

continued

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 3: Using Equations (continued)</b>				
31	3.4 The Percent Equation	112–16		
32	3.5 Percent Change and Error Careers in Math—Actuary	117–21	<ul style="list-style-type: none"> <li>• Quiz 2 (3.3–3.4)</li> <li>• Ratios, Rates, Proportions, and Percents</li> </ul>	<ul style="list-style-type: none"> <li>• submitting to whatever God wills</li> <li>• the wisdom of planning</li> <li>• serving God as an actuary</li> </ul>
33	3.6 Money	122–28	<ul style="list-style-type: none"> <li>• Using Technology: Math and Catalog Menus</li> </ul>	<ul style="list-style-type: none"> <li>• biblical financial principles</li> </ul>
34				
35	3.7 Motion	128–34	<ul style="list-style-type: none"> <li>• Quiz 3 (3.5–3.6)</li> </ul>	
36	3.8 Mixtures	135–39	<ul style="list-style-type: none"> <li>• Applied Problems</li> </ul>	
37	3.6–3.8 review		<ul style="list-style-type: none"> <li>• Quiz 4 (3.7–3.8)</li> </ul>	
38	Chapter 3 Review	140–41	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 3</li> <li>• Chapter 3 Review</li> <li>• Cumulative Review 3</li> </ul>	
39	Chapter 3 Test			

<b>Chapter 4: Solving Inequalities</b>				
40	4.1 Inequalities	142–48	<ul style="list-style-type: none"> <li>• Dominion Mandate: Money</li> </ul>	<ul style="list-style-type: none"> <li>• recognizing the greatness of the one true God</li> <li>• biblical financial principles*</li> </ul>
41	4.2 Properties of Inequality	148–52	<ul style="list-style-type: none"> <li>• Math History: Modern Symbols Introduced After 1600</li> <li>• Properties of Inequality</li> </ul>	<ul style="list-style-type: none"> <li>• God’s interest in everyday things*</li> </ul>
42	4.3 Solving Inequalities	153–56	<ul style="list-style-type: none"> <li>• Quiz 1 (4.1–4.2)</li> <li>• Solving Inequalities</li> </ul>	<ul style="list-style-type: none"> <li>• true wisdom based on the fear of the Lord</li> </ul>
43	Sequences—Arithmetic Sums	157	<ul style="list-style-type: none"> <li>• Quiz 2 (4.3)</li> </ul>	
44	4.4 Conjunctions	158–62		<ul style="list-style-type: none"> <li>• God’s special design for ocean species</li> <li>• Jesus’s teachings on wise investments</li> </ul>
45	4.5 Disjunctions	163–67	<ul style="list-style-type: none"> <li>• Boolean Algebra</li> <li>• Compound Inequalities</li> </ul>	<ul style="list-style-type: none"> <li>• being faithful with God’s resources</li> </ul>
46	4.4–4.5 review Math in History—The Bernoulli Family	168	<ul style="list-style-type: none"> <li>• Quiz 3 (4.4–4.5)</li> </ul>	<ul style="list-style-type: none"> <li>• warnings against envy</li> </ul>
47	4.6 Absolute Value Equations	169–72		
48	4.7 Absolute Value Inequalities	173–76	<ul style="list-style-type: none"> <li>• Absolute Values</li> <li>• Using Technology: Graphing Inequalities</li> </ul>	
49	4.6–4.7 review Technology Corner	177	<ul style="list-style-type: none"> <li>• Quiz 4 (4.6–4.7)</li> </ul>	
50	Chapter 4 Review	178–79	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 4</li> <li>• Chapter 4 Review</li> <li>• Cumulative Review 4</li> </ul>	
51	Chapter 4 Test			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 5: Relations and Functions</b>				
52	5.1 Points in the Coordinate Plane	180–87	<ul style="list-style-type: none"> <li>• <a href="#">Dominion Mandate: Omnipresent, Omniscient God</a></li> </ul>	<ul style="list-style-type: none"> <li>• exercising effective dominion through the ability to describe exact locations on the earth</li> <li>• the effects of God’s omniscience and omnipresence*</li> </ul>
53	5.2 Relations and Functions	187–92		
54	5.3 Graphs of Relations and Functions Technology Corner	193–99	<ul style="list-style-type: none"> <li>• <a href="#">Quiz 1 (5.1–5.2)</a></li> <li>• <a href="#">Math History: Oresme</a></li> <li>• <a href="#">Using Technology: Angle Menu</a></li> <li>• <a href="#">Relations and Functions</a></li> </ul>	
55	5.4 Using Graphs Careers in Math—Market Research Analyst	200–208	<ul style="list-style-type: none"> <li>• <a href="#">Cobweb Diagrams</a></li> </ul>	<ul style="list-style-type: none"> <li>• modeling Christ</li> <li>• the influence of Christian professionals in ethical decisions of businesses</li> <li>• the dangers of extrapolation*</li> </ul>
56	5.5 Function Rules	209–15	<ul style="list-style-type: none"> <li>• <a href="#">Quiz 2 (5.3–5.4)</a></li> <li>• <a href="#">Writing Function Rules</a></li> </ul>	
57	5.6 Direct and Inverse Variations	215–20	<ul style="list-style-type: none"> <li>• <a href="#">Quiz 3 (5.5)</a></li> <li>• <a href="#">Direct and Inverse Variation Sudoku</a></li> <li>• <a href="#">Spaghetti Bridge Strength</a></li> </ul>	<ul style="list-style-type: none"> <li>• God’s consistency and dependability seen in universal laws of nature</li> </ul>
58	Sequences—Geometric Sequences	221		
59	5.7 Graphing Absolute Value Functions	222–26		
60	5.6–5.7 review		<ul style="list-style-type: none"> <li>• <a href="#">Quiz 4 (5.6–5.7)</a></li> </ul>	
61	Chapter 5 Review	227–29	<ul style="list-style-type: none"> <li>• <a href="#">Mathardy: Ch. 5</a></li> <li>• <a href="#">Chapter 5 Review</a></li> <li>• <a href="#">Cumulative Review 5</a></li> </ul>	
62	<a href="#">Chapter 5 Test</a>			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 6: Linear Functions</b>				
63	6.1 Graphing Lines Math in History—René Descartes	230–37	<ul style="list-style-type: none"> <li>• <b>Dominion Mandate: God Is Greater Than</b></li> </ul>	<ul style="list-style-type: none"> <li>• opportunities for serving the Lord in many “secular” occupations</li> <li>• the danger of using human reason instead of God’s Word as the test of truth</li> <li>• recognizing equations, inequalities, and functions in Scripture*</li> </ul>
64	6.2 Slope	238–44	<ul style="list-style-type: none"> <li>• <b>Math History: Eudoxus</b></li> </ul>	
65	6.3 Slope-Intercept Form of a Line	245–49	<ul style="list-style-type: none"> <li>• <b>Quiz 1 (6.1–6.2)</b></li> <li>• <b>Graphs of Lines</b></li> <li>• <b>Direct Variation and Linear Equations</b></li> </ul>	<ul style="list-style-type: none"> <li>• the math behind personal safety</li> </ul>
66	6.4 Writing Linear Equations	250–55		
67	6.3–6.4 review		<ul style="list-style-type: none"> <li>• <b>Quiz 2 (6.3–6.4)</b></li> </ul>	
68	6.5 Parallel and Perpendicular Lines	256–61	<ul style="list-style-type: none"> <li>• <b>Forms of Linear Equations</b></li> </ul>	<ul style="list-style-type: none"> <li>• the math behind benevolent construction projects</li> </ul>
69	Sequences—Converging and Diverging Sequences	262	<ul style="list-style-type: none"> <li>• <b>Quiz 3 (6.5)</b></li> </ul>	
70	6.6 Trend Lines and Correlation Technology Corner	263–68	<ul style="list-style-type: none"> <li>• <b>Using Technology: Regression Lines</b></li> <li>• <b>Using Correlation and Lines of Best Fit</b></li> </ul>	<ul style="list-style-type: none"> <li>• correlation versus causation*</li> </ul>
71	6.7 Graphing Linear Inequalities	269–73	<ul style="list-style-type: none"> <li>• <b>Linear Equations and Inequalities</b></li> </ul>	<ul style="list-style-type: none"> <li>• demonstrating the love of God by using abilities to help others</li> </ul>
72	Chapter 6 Review	274–75	<ul style="list-style-type: none"> <li>• <b>Quiz 4 (6.6–6.7)</b></li> <li>• <b>Mathardy: Ch. 6</b></li> <li>• <b>Chapter 6 Review</b></li> <li>• <b>Cumulative Review 6</b></li> </ul>	
73	<b>Chapter 6 Test</b>			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 7A: Linear Systems</b>				
74	7.1 Graphing Systems of Equations Technology Corner	276–83	<ul style="list-style-type: none"> <li>• Dominion Mandate: Jesus Christ, the Messiah</li> <li>• Graphing Systems</li> <li>• Breaking Even</li> </ul>	<ul style="list-style-type: none"> <li>• applying mathematics in fulfilling the Great Commission</li> <li>• pointing to the deity of Jesus Christ through the fulfillment of the many messianic prophecies</li> <li>• contrasting financial profit and greed*</li> </ul>
75	7.2 Solving Simple Systems by Substitution	284–87		
76	7.3 Solving Advanced Systems by Substitution	288–93	<ul style="list-style-type: none"> <li>• Quiz 1 (7.1–7.2)</li> <li>• Solving Systems by Substitution</li> <li>• Substitution Method Strategies</li> </ul>	
77	Sequences—Limit of a Sequence	294		
78	7.4 Solving Systems by Elimination	295–300	<ul style="list-style-type: none"> <li>• Math History: Zhu Shijie</li> <li>• Solving Systems by Elimination</li> </ul>	
79	7.3–7.4 review		• Quiz 2 (7.3–7.4)	
80	Review for Final Exam			
81	Review for Final Exam			
82	Final Exam (Chapters 1–6)			

<b>Chapter 7B: Linear Systems</b>				
83	7.5 Special Systems Careers in Math—Computer Programmer/Software Engineer	300–307	• Three-Dimensional Systems	• effective management of God-given resources through computer-related careers
84	7.6 Motion Problems	308–12		
85	7.5–7.6 review		• Quiz 3 (7.5–7.6)	
86	7.7 Mixture Problems	313–18	• Word Problems	
87	7.8 Solving Systems of Inequalities	318–23	• Using Technology: Graphing Systems of Linear Inequalities	
88	7.7–7.8 review		• Quiz 4 (7.7–7.8)	
89	Chapter 7 Review	324–25	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 7</li> <li>• Chapter 7 Review</li> <li>• Cumulative Review 7</li> </ul>	
90	Chapter 7 Test			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 8: Exponents</b>				
91	8.1 Products and Powers	326–32	<ul style="list-style-type: none"> <li>• Math History: Einstein</li> <li>• The Binary Number System</li> </ul>	<ul style="list-style-type: none"> <li>• using the Internet to serve God and others in love</li> <li>• applying biblical principles to new situations</li> </ul>
92	8.2 Quotients Math in History—Karl Friedrich Gauss	333–38		<ul style="list-style-type: none"> <li>• discerning good from evil</li> </ul>
93	8.3 Scientific Notation	338–43	<ul style="list-style-type: none"> <li>• Quiz 1 (8.1–8.2)</li> <li>• Scientific Notation</li> <li>• Large Numbers</li> </ul>	<ul style="list-style-type: none"> <li>• wise use of the Internet</li> </ul>
94	8.4 Translating Power Functions	344–49	<ul style="list-style-type: none"> <li>• Translating Power Functions</li> </ul>	
95	8.5 Exponential Functions Technology Corner	350–56	<ul style="list-style-type: none"> <li>• Quiz 2 (8.3–8.4)</li> <li>• Using Technology: Families of Functions</li> <li>• Exponential Functions</li> </ul>	<ul style="list-style-type: none"> <li>• using technology to manage God's creation while realizing that Christ alone gives power for success</li> </ul>
96	8.6 Exponential Growth and Decay	357–64	<ul style="list-style-type: none"> <li>• Dominion Mandate: Exponential Decay</li> </ul>	<ul style="list-style-type: none"> <li>• sharing our faith and compassion over the Internet</li> <li>• benefiting others through the use of mathematical models*</li> </ul>
97	Sequences—Infinite Geometric Sums	365	<ul style="list-style-type: none"> <li>• Quiz 3 (8.5–8.6)</li> </ul>	
98	Chapter 8 Review	366–67	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 8</li> <li>• Chapter 8 Review</li> <li>• Cumulative Review 8</li> </ul>	
99	<b>Chapter 8 Test</b>			

<b>Chapter 9: Polynomials</b>				
100	9.1 Classifying and Evaluating Polynomials	368–73	<ul style="list-style-type: none"> <li>• Velocity</li> </ul>	<ul style="list-style-type: none"> <li>• providing for physical and spiritual needs through the use of mathematical models</li> </ul>
101	Careers in Math—Engineer 9.2 Adding and Subtracting Polynomials	374–79	<ul style="list-style-type: none"> <li>• Math History: Gradual Development of Algebraic Thought</li> </ul>	<ul style="list-style-type: none"> <li>• fulfilling the Dominion Mandate through product design engineering</li> </ul>
102	9.3 Multiplying Polynomials Technology Corner	379–84	<ul style="list-style-type: none"> <li>• Quiz 1 (9.1–9.2)</li> <li>• Using Technology: Checking Polynomial Operations</li> <li>• Polynomials</li> </ul>	<ul style="list-style-type: none"> <li>• recognizing responsibility in proper management of wildlife and natural resources</li> </ul>
103	9.4 Multiplying Binomials Using FOIL	385–88		
104	Sequences—Sums of Perfect Squares and Cubes	389	<ul style="list-style-type: none"> <li>• Quiz 2 (9.3–9.4)</li> </ul>	
105	9.5 Special Products	390–93	<ul style="list-style-type: none"> <li>• Multiplying Polynomials</li> </ul>	<ul style="list-style-type: none"> <li>• evangelizing the earth's increasing population</li> </ul>

continued

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 9: Polynomials (continued)</b>				
106	9.6 Dividing Polynomials	394–99	<ul style="list-style-type: none"> <li>• Dividing Polynomials</li> <li>• Operations and Properties</li> </ul>	<ul style="list-style-type: none"> <li>• demonstrating increased opportunities to show Christ’s love by providing for the needy through applied mathematics</li> </ul>
107	9.6 review		<ul style="list-style-type: none"> <li>• Quiz 3 (9.5–9.6)</li> <li>• Dominion Mandate: Biblical Multiplication and Division</li> </ul>	<ul style="list-style-type: none"> <li>• examining occurrences of multiplication and division in Scripture*</li> </ul>
108	Chapter 9 Review	400–401	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 9</li> <li>• Chapter 9 Review</li> <li>• Cumulative Review 9</li> </ul>	
109	Chapter 9 Test			

<b>Chapter 10: Factoring Polynomials</b>				
110	10.1 Factoring Common Monomials	402–7	<ul style="list-style-type: none"> <li>• Math History: Diophantus</li> <li>• Appendix J: UnFOILing: Roots and Factors</li> </ul>	<ul style="list-style-type: none"> <li>• fulfilling the Dominion Mandate by harnessing God-given resources and lessening the suffering resulting from natural disasters</li> </ul>
111	Sequences—Factorial Sequences	408		
112	10.2 Factoring Trinomials of the Form $x^2 + bx + c$	409–13	<ul style="list-style-type: none"> <li>• Common Factors and Factoring Trinomials</li> </ul>	<ul style="list-style-type: none"> <li>• God’s control of our climate</li> </ul>
113	10.1–10.2 review Math in History—Grace Hopper	414	<ul style="list-style-type: none"> <li>• Quiz 1 (10.1–10.2)</li> </ul>	<ul style="list-style-type: none"> <li>• developing our God-given talents into a life of service and fruitfulness</li> </ul>
114	10.3 Factoring Trinomials of the Form $ax^2 + bx + c$	415–19	<ul style="list-style-type: none"> <li>• Dominion Mandate: Climate Change</li> </ul>	<ul style="list-style-type: none"> <li>• considering the wondrous works of God by investigation of weather phenomena*</li> </ul>
115	10.4 Special Patterns Technology Corner	420–24	<ul style="list-style-type: none"> <li>• Factoring Trinomials and Special Patterns</li> <li>• Factoring Differences</li> </ul>	<ul style="list-style-type: none"> <li>• recognizing that consistency and common patterns of creation point to the Creator</li> </ul>
116	10.5 Factoring Completely	425–28	<ul style="list-style-type: none"> <li>• Quiz 2 (10.3–10.4)</li> <li>• Factoring Completely</li> <li>• Using Technology: Factor Check</li> <li>• Factor Formula</li> </ul>	
117	10.5 review		<ul style="list-style-type: none"> <li>• Quiz 3 (10.5)</li> </ul>	
118	Chapter 10 Review	429	<ul style="list-style-type: none"> <li>• Mathardy: Ch. 10</li> <li>• Chapter 10 Review</li> <li>• Cumulative Review 10</li> </ul>	
119	Chapter 10 Test			



Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 11: Radicals</b>				
120	11.1 Expressing Roots Technology Corner	430–36	• <a href="#">Imaginary Numbers?</a>	<ul style="list-style-type: none"> <li>recognizing value and purpose for life as being created in God’s image, which affects the choices we make</li> <li>appreciating the beauty and order in nature as a reflection of our marvelous Creator*</li> </ul>
121	11.2 Simplifying Radicals	437–41	• <a href="#">Simplifying Radicals</a>	<ul style="list-style-type: none"> <li>realizing God’s ultimate power in the gospel as we use technology to assist in the spread of the gospel</li> </ul>
122	11.3 Multiplying Radicals	441–45	• <a href="#">Quiz 1 (11.1–11.2)</a>	
123	Sequences—Summation (Sigma) Notation	446		
124	11.4 Dividing Radicals	447–52		
125	11.3–11.4 review		• <a href="#">Quiz 2 (11.3–11.4)</a>	
126	11.5 Adding and Subtracting Radicals	453–56	<ul style="list-style-type: none"> <li><a href="#">Operations with Radicals</a></li> <li><a href="#">Golden Ratios, Rectangles, and Spirals</a></li> </ul>	
127	11.6 The Pythagorean Theorem	457–63	<ul style="list-style-type: none"> <li><a href="#">Pythagorean Triples</a></li> <li><a href="#">Math History: Pythagoras</a></li> <li>Appendix K: Society of the Pythagoreans</li> </ul>	<ul style="list-style-type: none"> <li>using Scripture to evaluate the beliefs of the Society of the Pythagoreans*</li> </ul>
128				
129	11.7 Multiplying and Dividing Radical Expressions Careers in Math—Chemist/ Chemical Engineer	464–69	<ul style="list-style-type: none"> <li><a href="#">Quiz 3 (11.5–11.6)</a></li> <li><a href="#">Dominion Mandate: Transcendental Numbers</a></li> </ul>	<ul style="list-style-type: none"> <li>harnessing the potential of God’s creation for His glory as a chemist</li> <li>recognizing the coherence and beauty of mathematics as evidence of God’s existence*</li> </ul>
130	11.8 Radical Equations	470–75	• <a href="#">Radical Expressions and Equations</a>	<ul style="list-style-type: none"> <li>deriving greater enjoyment from and bringing greater praise to God through increased understanding of His creation</li> </ul>
131	11.9 Radical Functions	475–79	<ul style="list-style-type: none"> <li><a href="#">Quiz 4 (11.7–11.8)</a></li> <li><a href="#">Using Technology: Radical Functions</a></li> </ul>	
132	Chapter 11 Review	480–81	<ul style="list-style-type: none"> <li><a href="#">Quiz 5 (11.9)</a></li> <li><a href="#">Mathardy: Ch. 11</a></li> <li><a href="#">Chapter 11 Review</a></li> <li><a href="#">Cumulative Review 11</a></li> </ul>	
133	<a href="#">Chapter 11 Test</a>			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 12: Quadratic Functions</b>				
134	12.1 Solving Quadratic Equations by Factoring	482–88	• Solving Quadratic Equations by Factoring	• seeing God’s faithfulness to us through consistency in His creation
135	12.2 Solving Quadratic Equations by Taking Roots Technology Corner Math in History—John von Neumann	489–94		• the complexity of the human brain and how it points to the intelligence and existence of God
136	12.3 Completing the Square	495–98	• Quiz 1 (12.1–12.2)	
137	12.4 Completing the Square with Leading Coefficients	499–502	• Taking Roots and Completing the Square	
138	12.3–12.4 review		• Quiz 2 (12.3–12.4)	
139	12.5 The Quadratic Formula	502–6	• The Quadratic Formula	
140	12.6 More Quadratic Equations	507–10	• Polynomial and Radical Equations	
141	12.5–12.6 review		• Quiz 3 (12.5–12.6)	
142	12.7 Quadratic Functions: $f(x) = ax^2 + c$	511–15	• Math History: Apollonius	
143	12.8 Quadratic Functions: $f(x) = a(x - h)^2 + k$	516–21	• Quadratic Functions, Optimization, and Estimation	
144	12.7–12.8 review		• Quiz 4 (12.7–12.8)	
145	12.9 Zeros of a Function	522–26	• Using Technology: Solving Quadratic Equations by Graphing • Dominion Mandate: The Quadratic Function in Action	• the consistency of physical phenomena resulting from God’s providential care of His creation • fulfilling the Dominion Mandate through the modeling of physical phenomena with quadratic functions*
146	Sequences—Quadratic Arithmetic Sums	527	• Quiz 5 (12.9)	
147	Chapter 12 Review	528–29	• Mathardy: Ch. 12 • Chapter 12 Review • Cumulative Review 12	
148	Chapter 12 Test			

Day	Topic	Pages	Support Materials	Bible Integration*
<b>Chapter 13: Rational Expressions</b>				
149	13.1 Simplifying Rational Expressions	530–37	• <a href="#">Math History: Tartaglia</a>	• using mathematical reasoning to effectively model the physical universe as a reflection of the Creator
150	13.2 Multiplying and Dividing Rational Expressions	538–41		• reasoning based on the truth of God’s Word
151	Sequences—Harmonic Sequences	542	• <a href="#">Quiz 1 (13.1–13.2)</a>	
152	13.3 Adding and Subtracting Expressions with Common Denominators	543–46	• <a href="#">Dominion Mandate: When I Consider Thy Heavens</a>	• letting the glorification of God be our motivation for the study of mathematics
153	13.4 Adding and Subtracting Expressions with Different Denominators	547–51	• <a href="#">Explaining Why</a> • <a href="#">GCF and LCM</a>	
154	13.5 Complex and Mixed Expressions	552–56	• <a href="#">Quiz 2 (13.3–13.4)</a> • <a href="#">Operations with Rational Expressions</a>	
155	13.6 Solving Rational Equations	556–60	• <a href="#">Using Technology: Solving Rational Equations</a> • <a href="#">Rational Equations</a>	
156	13.5–13.6 review		• <a href="#">Quiz 3 (13.5–13.6)</a>	
157	13.7 Applying Rational Equations	560–66	• <a href="#">Application Problems</a> • <a href="#">Electrical Resistance</a>	• working in a way that is pleasing to God
158	Careers in Math—Operations Research Analyst 13.8 Graphing Rational Functions Technology Corner	567–74		• fulfilling the Dominion Mandate as an operations analyst by organizing complex processes to help others achieve their goals
159	13.7–13.8 review		• <a href="#">Quiz 4 (13.7–13.8)</a>	
160	Chapter 13 Review	575–76	• <a href="#">Mathardy: Ch. 13</a> • <a href="#">Chapter 13 Review</a> • <a href="#">Cumulative Review 13</a>	
161	<a href="#">Chapter 13 Test</a>			
162	Review for Final Exam			
163	Review for Final Exam			
164	<a href="#">Final Exam (Chapters 7–13)</a>			