

## Geometry 3<sup>rd</sup> Edition Standard Lesson Plan Overview

This Standard Lesson Plan allocates 90 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: Incidence Geometry</b>				
1	Introduction	xii–xv		<ul style="list-style-type: none"> <li>God created all things</li> </ul>
2	1.1 Sets and Subsets	xvi–5	<ul style="list-style-type: none"> <li><a href="#">Math History: Georg Cantor</a></li> </ul>	<ul style="list-style-type: none"> <li>God's order seen through geometry reveals His wisdom</li> <li>do all to the glory of God</li> </ul>
3	1.2 Set Operations	6–8	<ul style="list-style-type: none"> <li><a href="#">Elements and Subsets</a></li> <li><a href="#">Set Operations</a></li> <li><a href="#">Intersection and Union</a></li> </ul>	
4	1.3 Undefined Terms and Definitions	9–13	<ul style="list-style-type: none"> <li><a href="#">Quiz 1 (1.1–1.2)</a></li> <li><a href="#">Types of Definitions</a></li> <li><a href="#">Symbols and Names</a></li> </ul>	<ul style="list-style-type: none"> <li>faith in God's Word is the foundation for growth</li> </ul>
5	Analytic Geometry—Graphing Points	14–15	<ul style="list-style-type: none"> <li><a href="#">Quiz 2 (1.3)</a></li> <li><a href="#">Calculator Skills</a></li> </ul>	
6	1.4 A Framework with Definitions	16–20	<ul style="list-style-type: none"> <li><a href="#">Lines: Parallel, Intersecting, Perpendicular</a></li> </ul>	
7	1.5 An Ideal Euclidean Model	20–24		<ul style="list-style-type: none"> <li>Christ is the Truth*</li> <li>man's incomplete knowledge</li> </ul>
8	1.6 Incidence Theorems	25–29	<ul style="list-style-type: none"> <li><a href="#">Quiz 3 (1.4–1.5)</a></li> <li><a href="#">Practice</a></li> </ul>	
9	Geometry Through History—Euclid 1.7 Sketches and Constructions	30–35	<ul style="list-style-type: none"> <li><a href="#">Drawing Skills</a></li> <li><a href="#">Geometer's Sketchpad Investigations</a></li> </ul>	<ul style="list-style-type: none"> <li>God is the source of knowledge</li> <li>construction instruments in Isaiah 44:13 before the time of Euclid*</li> </ul>
10	Geometry and Scripture—God's Consistency	36–37	<ul style="list-style-type: none"> <li><a href="#">Quiz 4 (1.6–1.7)</a></li> <li><a href="#">Bible: God—The Source of Truth</a></li> </ul>	<ul style="list-style-type: none"> <li>God's consistency</li> <li>God is the source of truth (His divine nature, attributes, and works)*</li> </ul>
11	Chapter 1 Review	38–39	<ul style="list-style-type: none"> <li><a href="#">Terms and Symbols</a></li> <li><a href="#">Cumulative Review</a></li> </ul>	
12	<a href="#">Chapter 1 Test</a>			

Day	Topic	Pages	Support Materials	Bible Integration
<b>Chapter 2: Subsets of Lines, Planes, and Space</b>				
13	2.1 Subsets of Lines	40–44	<ul style="list-style-type: none"> <li>• Symbols and Names</li> <li>• Calculator Skills</li> </ul>	<ul style="list-style-type: none"> <li>• confidence in Christ, who left behind an empty tomb</li> </ul>
14	2.2 Betweenness	45–47	<ul style="list-style-type: none"> <li>• Symbols and Names</li> </ul>	<ul style="list-style-type: none"> <li>• all have sinned; sin breaks fellowship with God</li> </ul>
15	2.3 Subsets of Planes	48–51	<ul style="list-style-type: none"> <li>• Quiz 1 (2.1–2.2)</li> <li>• Drawing Skills</li> <li>• Symbols and Names</li> </ul>	<ul style="list-style-type: none"> <li>• biblical separation</li> </ul>
16	Geometry Around Us—Designers & Their Patterns	52–53	<ul style="list-style-type: none"> <li>• Quiz 2 (2.3)</li> <li>• Bible: Christ—The Embodiment of Truth</li> </ul>	<ul style="list-style-type: none"> <li>• geometry in creation*</li> </ul>
17	2.4 Curves and Circles Analytic Geometry—Graphing Curves	54–60	<ul style="list-style-type: none"> <li>• Math History: Jan Brouwer</li> <li>• Geometer's Sketchpad Investigations</li> <li>• Circles</li> </ul>	<ul style="list-style-type: none"> <li>• the Trinity</li> </ul>
18	2.5 Polygons and Convexity	61–67	<ul style="list-style-type: none"> <li>• Prefixes in Detail</li> <li>• Polygons</li> </ul>	
19	2.4–2.5 Review		<ul style="list-style-type: none"> <li>• Quiz 3 (2.4–2.5)</li> <li>• Tessellations</li> </ul>	
20	2.6 Subsets of Space	68–73	<ul style="list-style-type: none"> <li>• Moebius Bands</li> <li>• 3–D Figures</li> </ul>	
21	2.7 Polyhedra	73–77	<ul style="list-style-type: none"> <li>• Terms and Symbols</li> </ul>	<ul style="list-style-type: none"> <li>• the sure foundation of the Lord Jesus</li> </ul>
22	Geometry and Scripture—Variables	78–79	<ul style="list-style-type: none"> <li>• Quiz 4 (2.6–2.7)</li> </ul>	<ul style="list-style-type: none"> <li>• instances of geometry in the Bible</li> </ul>
23	Chapter 2 Review	80–81	<ul style="list-style-type: none"> <li>• Practice</li> <li>• Cumulative Review</li> </ul>	
24	<b>Chapter 2 Test</b>			

<b>Chapter 3: Segments and Measurement</b>				
25	3.1 Real Numbers	82–88		<ul style="list-style-type: none"> <li>• the law as a spiritual schoolmaster showing us our need</li> </ul>
26	3.2 Segment Measure	89–92	<ul style="list-style-type: none"> <li>• Sports in Brief</li> </ul>	
27	Analytic Geometry—The Distance Formula	93	<ul style="list-style-type: none"> <li>• Quiz 1 (3.1–3.2)</li> </ul>	
28	3.3 Segment Bisectors	94–97	<ul style="list-style-type: none"> <li>• Pasch's Postulate</li> <li>• Calculator Skills</li> </ul>	
29	3.4 Perimeter & Circumference	97–101	<ul style="list-style-type: none"> <li>• Quiz 2 (3.2–3.3)</li> <li>• Math History: Gaspard Monge</li> <li>• Perimeter Formulas</li> </ul>	<ul style="list-style-type: none"> <li>• the circumference of a circle approximated in the Bible</li> </ul>

Day	Topic	Pages	Support Materials	Bible Integration
30	Geometry Through History—Archimedes 3.5 Polygons: Inscribed and Circumscribed	102–8	<ul style="list-style-type: none"> <li>Design in Detail</li> <li>Kinds of Geometry</li> <li>Geometer's Sketchpad Investigations</li> </ul>	
31	3.4–3.5 Review		<ul style="list-style-type: none"> <li>Quiz 3 (3.4–3.5)</li> </ul>	
32	3.6 Segment Constructions	109–11	<ul style="list-style-type: none"> <li>Construction Skills</li> </ul>	
33	Geometry and Scripture—Distance	112–13	<ul style="list-style-type: none"> <li>Quiz 4 (3.6)</li> <li>Bible: Creation—The Reflection of Truth</li> </ul>	<ul style="list-style-type: none"> <li>measurements in the Bible</li> <li>Creation (by God through Christ) reflecting truth*</li> </ul>
34	Chapter 3 Review	114–15	<ul style="list-style-type: none"> <li>Terms and Symbols</li> <li>Cumulative Review</li> </ul>	
35	Chapter 3 Test			

Chapter 4: Angles and Measurement				
36	4.1 Inequalities	116–20	<ul style="list-style-type: none"> <li>Calculator Skills</li> </ul>	<ul style="list-style-type: none"> <li>God's creation displays order and design*</li> </ul>
37	4.2 Angle Measure	121–26	<ul style="list-style-type: none"> <li>Math History: Jean-Victor Poncelet</li> </ul>	
38	Analytic Geometry—Slopes of Lines	127–28	<ul style="list-style-type: none"> <li>Quiz 1 (4.1–4.2)</li> </ul>	
39	4.3 Angle Bisectors	129–34	<ul style="list-style-type: none"> <li>Lines: Parallel, Intersecting, Perpendicular</li> </ul>	
40	4.4 Angle Properties	135–41	<ul style="list-style-type: none"> <li>Locus Problems</li> </ul>	
41	Geometry Around Us—Architecture	142–43	<ul style="list-style-type: none"> <li>Quiz 2 (4.3–4.4)</li> <li>Architecture in Brief</li> </ul>	
42	4.5 Polygons: Triangles and Quadrilaterals	144–49	<ul style="list-style-type: none"> <li>Quadrilaterals in Detail</li> <li>Triangles</li> <li>Quadrilaterals</li> </ul>	
43	4.6 Angle Constructions	150–53	<ul style="list-style-type: none"> <li>Quiz 3 (4.5)</li> <li>Construction Skills</li> <li>Geometer's Sketchpad Investigations</li> </ul>	<ul style="list-style-type: none"> <li>God created the universe in an orderly manner</li> <li>orderliness in the universe maintained</li> </ul>
44	Geometry and Scripture—Architecture	154–55	<ul style="list-style-type: none"> <li>Quiz 4 (4.6)</li> <li>Bible: Heaven—The Triumph of Truth</li> </ul>	<ul style="list-style-type: none"> <li>architecture in the Bible</li> <li>heaven as the triumph of truth*</li> </ul>
45	Chapter 4 Review	156–57	<ul style="list-style-type: none"> <li>Terms and Symbols</li> <li>Practice</li> <li>Cumulative Review</li> </ul>	
46	Chapter 4 Test			
47	Review Chapters 1–4			
48	First Quarter Exam (Chapters 1–4)			

Day	Topic	Pages	Support Materials	Bible Integration
<b>Chapter 5: Preparing for Proofs</b>				
49	5.1 Introduction to Reasoning	158–66		<ul style="list-style-type: none"> <li>God created man a rational being</li> </ul>
50	5.2 Statements and Quantifiers	166–68		
51	5.3 Truth Values and Connectives	169–73	<ul style="list-style-type: none"> <li>Quiz 1 (5.1–5.2)</li> <li>Calculator Skills</li> </ul>	<ul style="list-style-type: none"> <li>God is the God of truth</li> </ul>
52	Geometry Through History—Boethius	174–75	<ul style="list-style-type: none"> <li>Quiz 2 (5.3)</li> </ul>	<ul style="list-style-type: none"> <li>Arianism and the deity of Christ</li> </ul>
53	5.4 Conditional Statements	176–81	<ul style="list-style-type: none"> <li>Truth Tables in Detail</li> </ul>	
54	5.5 Proofs	182–88	<ul style="list-style-type: none"> <li>Quiz 3 (5.4)</li> <li>Math History: Aristotle</li> <li>Fallacies in Brief</li> <li>Paradox in Principle</li> </ul>	<ul style="list-style-type: none"> <li>test all things against Scripture</li> <li>beware of fallacies</li> </ul>
55	5.6 Deductive Proof	189–95	<ul style="list-style-type: none"> <li>Quiz 4 (5.5)</li> <li>Practice</li> </ul>	<ul style="list-style-type: none"> <li>Paul used deductive reasoning</li> <li>Christ provided a remedy for man's sin</li> </ul>
56	Analytic Geometry—Graphing Lines	196	<ul style="list-style-type: none"> <li>Quiz 5 (5.6)</li> </ul>	
57	5.7 Construction and Proofs	197–201	<ul style="list-style-type: none"> <li>Construction Skills</li> <li>Geometer's Sketchpad Investigations</li> </ul>	
58	Geometry and Scripture—Statements	202–3	<ul style="list-style-type: none"> <li>Quiz 6 (5.7)</li> <li>Bible: Salvation</li> </ul>	<ul style="list-style-type: none"> <li>proofs in the Bible</li> <li>salvation is God's free gift through faith in Christ alone*</li> </ul>
59	Chapter 5 Review	204–5	<ul style="list-style-type: none"> <li>Terms and Symbols</li> <li>Cumulative Review</li> </ul>	
60	Chapter 5 Test			

<b>Chapter 6: Congruence</b>				
61	6.1 Congruent Segments	206–14		<ul style="list-style-type: none"> <li>perseverance</li> <li>honoring and glorifying the Lord in all that we do*</li> </ul>
62	6.2 Congruent Angles	214–20		
63	6.1–6.2 Review		<ul style="list-style-type: none"> <li>Quiz 1 (6.1–6.2)</li> <li>Bible: The Bible—The Test for Truth</li> </ul>	<ul style="list-style-type: none"> <li>mathematical reasoning and biblical truth*</li> </ul>
64	6.3 Congruent Polygons and Circles	220–24	<ul style="list-style-type: none"> <li>Conjectures in Brief</li> </ul>	
65	6.4 Parallel Lines and Transversals	225–31	<ul style="list-style-type: none"> <li>Quiz 2 (6.3)</li> <li>Switching Circuits</li> </ul>	
66	Analytic Geometry—Equations of Lines	232	<ul style="list-style-type: none"> <li>Quiz 3 (6.4)</li> </ul>	

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67	6.5 Angles of Polygons	233–37	<ul style="list-style-type: none"> <li>Practice</li> <li>Calculator Skills</li> </ul>	
68	Geometry Around Us—Sports	238–39	<ul style="list-style-type: none"> <li>Quiz 4 (6.5)</li> </ul>	
69	6.6 Congruence Postulates	240–44	<ul style="list-style-type: none"> <li>Auxiliary Figures in Detail</li> </ul>	
70	6.7 Congruent Triangles	245–50	<ul style="list-style-type: none"> <li>Quiz 5 (6.6)</li> <li>Math History: Pappus</li> </ul>	<ul style="list-style-type: none"> <li>pressing toward the mark</li> </ul>
71	6.8 Conditions for Congruent Triangles	251–55	<ul style="list-style-type: none"> <li>Geometer's Sketchpad Investigations</li> <li>Constructions Skills</li> </ul>	
72	Geometry and Scripture—Reasoning	256–57	<ul style="list-style-type: none"> <li>Quiz 6 (6.7–6.8)</li> </ul>	<ul style="list-style-type: none"> <li>reasoning and logic in the Bible</li> </ul>
73	Chapter 6 Review	258–59	<ul style="list-style-type: none"> <li>Chapter 6 Review</li> <li>Cumulative Review</li> </ul>	
74	Chapter 6 Test			

Chapter 7: Triangles and Quadrilaterals				
75	7.1 Right Triangles	260–66	<ul style="list-style-type: none"> <li>Triangle Congruence Criteria</li> </ul>	<ul style="list-style-type: none"> <li>patterning our lives after Christ</li> </ul>
76	7.1 Review		<ul style="list-style-type: none"> <li>Quiz 1 (7.1)</li> </ul>	
77	7.2 Perpendiculars and Bisectors	267–72	<ul style="list-style-type: none"> <li>Geometer's Sketchpad Investigations</li> <li>Practice</li> </ul>	
78	7.3 Exterior Angles and Inequalities	273–78	<ul style="list-style-type: none"> <li>Calculator Skills</li> </ul>	<ul style="list-style-type: none"> <li>God looks on the heart</li> </ul>
79	Geometry Around Us—Carpentry	279–80	<ul style="list-style-type: none"> <li>Quiz 2 (7.2–7.3)</li> </ul>	
80	7.4 Inequalities	281–86	<ul style="list-style-type: none"> <li>Euler Line in Brief</li> </ul>	
81	7.5 Triangle Inequality	287–90	<ul style="list-style-type: none"> <li>Math History: Johann Lambert</li> </ul>	
82	7.4–7.5 Review		<ul style="list-style-type: none"> <li>Quiz 3 (7.4–7.5)</li> </ul>	
83	7.6 Parallelograms	291–95	<ul style="list-style-type: none"> <li>Parallelograms in Detail</li> <li>Historic Quadrilaterals</li> </ul>	
84	Analytic Geometry—Midpoints	296–97		
85	7.7 Polygon Constructions	298–303	<ul style="list-style-type: none"> <li>Construction Skills</li> </ul>	<ul style="list-style-type: none"> <li>Scripture stresses understanding</li> </ul>
86	Geometry and Scripture—Dimensions	304–5	<ul style="list-style-type: none"> <li>Quiz 4 (7.6–7.7)</li> <li>Bible: Angels—Messengers of Truth</li> </ul>	<ul style="list-style-type: none"> <li>laws established in God's creation</li> <li>angels are messengers of truth and servants of God*</li> </ul>

Day	Topic	Pages	Support Materials	Bible Integration
87	Chapter 7 Review	306–7	<ul style="list-style-type: none"> <li>Terms and Symbols</li> <li>Cumulative Review</li> </ul>	
88	Chapter 7 Test			
89	Review Chapters 5–7			
90	Second Quarter Exam (Chapters 5–7)			

Chapter 8: Area				
91	8.1 Meaning of Area	308–15	<ul style="list-style-type: none"> <li>Geometer's Sketchpad Investigations</li> <li>Perimeter, Area, Volume</li> </ul>	<ul style="list-style-type: none"> <li>God provides a glimpse of heaven to believers</li> </ul>
92	8.2 Other Polygons	316–23	<ul style="list-style-type: none"> <li>Perimeter and Area</li> <li>Area</li> </ul>	
93	8.3 Pythagorean Theorem	323–27	<ul style="list-style-type: none"> <li>Quiz 1 (8.1–8.2)</li> <li>Pythagorean Theorem</li> </ul>	
94	Geometry Through History—Heron Analytic Geometry—Heron's Formula	328–31		
95	8.4 Regular Polygons	332–37	<ul style="list-style-type: none"> <li>Sin—The Corruption of Truth</li> </ul>	<ul style="list-style-type: none"> <li>the effect of sin on math*</li> </ul>
96	8.3–8.4 Review		<ul style="list-style-type: none"> <li>Quiz 2 (8.3–8.4)</li> </ul>	
97	8.5 Circles	338–40	<ul style="list-style-type: none"> <li>Construction Skills</li> <li>Area</li> </ul>	
98	8.6 Surface Areas of Prisms and Cylinders	341–47	<ul style="list-style-type: none"> <li>Quiz 3 (8.5)</li> <li>Math History: Plato</li> <li>Surface Area</li> </ul>	<ul style="list-style-type: none"> <li>Christianity is an inner change of the heart</li> </ul>
99	8.7 Surface Areas of Pyramids and Cones	348–54	<ul style="list-style-type: none"> <li>Surface Area</li> <li>Calculator Skills</li> </ul>	
100	8.8 Surface Areas of Polyhedra and Spheres	355–59	<ul style="list-style-type: none"> <li>Surface Area</li> <li>Platonic Solids</li> <li>Practice</li> </ul>	
101	8.6–8.8 Review		<ul style="list-style-type: none"> <li>Quiz 4 (8.6–8.8)</li> </ul>	
102	Geometry and Scripture—Area	360–61		<ul style="list-style-type: none"> <li>area measurements in the Bible</li> </ul>
103	Chapter 8 Review	362–63	<ul style="list-style-type: none"> <li>Terms and Symbols</li> <li>Cumulative Review</li> </ul>	
104	Chapter 8 Test			

Day	Topic	Pages	Support Materials	Bible Integration
<b>Chapter 9: Circles</b>				
105	9.1 Circles and Chords	364–71	<ul style="list-style-type: none"> <li>• Value of <math>\pi</math></li> <li>• Circles</li> </ul>	<ul style="list-style-type: none"> <li>• God's creation illustrates His wondrous ways</li> <li>• eternal life is certain for the believer</li> </ul>
106	Analytic Geometry—Graphing Circles	372–73	<ul style="list-style-type: none"> <li>• The Holy Spirit—The Guide to Truth</li> </ul>	<ul style="list-style-type: none"> <li>• the Holy Spirit is the Christian's guide to truth*</li> </ul>
107	9.2 Tangents	374–80	<ul style="list-style-type: none"> <li>• Indirect Proofs</li> <li>• Detectives in Brief</li> </ul>	
108	9.3 Arcs	381–87	<ul style="list-style-type: none"> <li>• Quiz 1 (9.1–9.2)</li> </ul>	
109	Geometry Around Us—Transportation	388–89	<ul style="list-style-type: none"> <li>• Quiz 2 (9.3)</li> </ul>	
110	9.4 Inscribed Angles	390–93	<ul style="list-style-type: none"> <li>• Math History: Ptolemy</li> </ul>	
111	9.5 Lines and Circles	394–98	<ul style="list-style-type: none"> <li>• Quiz 3 (9.4)</li> </ul>	
112	9.5 Review		<ul style="list-style-type: none"> <li>• Quiz 4 (9.5)</li> <li>• Calculator Skills</li> </ul>	
113	9.6 Sectors and Segments	399–404	<ul style="list-style-type: none"> <li>• Practice</li> </ul>	
114	9.7 Circle Constructions	405–9	<ul style="list-style-type: none"> <li>• Construction Skills</li> </ul>	
115	Geometry and Scripture—Pi	410–11	<ul style="list-style-type: none"> <li>• Quiz 5 (9.6–9.7)</li> <li>• Geometer's Sketchpad Investigations</li> </ul>	<ul style="list-style-type: none"> <li>• circumferences in the Bible</li> </ul>
116	Chapter 9 Review	412–13	<ul style="list-style-type: none"> <li>• Terms and Symbols</li> <li>• Cumulative Review</li> </ul>	
117	Chapter 9 Test			

<b>Chapter 10: Space</b>				
118	10.1 Perspective in Space	414–19	<ul style="list-style-type: none"> <li>• Perspective in Brief</li> </ul>	
119	10.2 Separation in Space	420–23	<ul style="list-style-type: none"> <li>• Atonement—The Restoration of Truth</li> </ul>	<ul style="list-style-type: none"> <li>• Christ's substitutionary atonement*</li> </ul>
120	10.3 Perpendiculars in Space	423–27	<ul style="list-style-type: none"> <li>• Quiz 1 (10.1–10.2)</li> </ul>	
121	10.4 Parallels in Space	428–31	<ul style="list-style-type: none"> <li>• Proofs in Detail</li> <li>• Practice</li> </ul>	
122	Analytic Geometry—Slopes of Parallel Lines	432–33	<ul style="list-style-type: none"> <li>• Quiz 2 (10.3–10.4)</li> </ul>	
123	10.5 Polyhedra	434–38	<ul style="list-style-type: none"> <li>• Construction Skills</li> <li>• Three-D Figures</li> <li>• Solids</li> </ul>	
124	10.6 Spheres	439–45		<ul style="list-style-type: none"> <li>• trusting in God, not riches</li> </ul>

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125	Geometry Through History—Riemann	446–47	<ul style="list-style-type: none"> <li>• Quiz 3 (10.5–10.6)</li> <li>• Geometer's Sketchpad Investigations</li> </ul>	<ul style="list-style-type: none"> <li>• Christian testimonial</li> </ul>
126	10.7 Latitude and Longitude	448–51	<ul style="list-style-type: none"> <li>• Calculator Skills</li> </ul>	
127	10.8 Spherical Geometry	451–53	<ul style="list-style-type: none"> <li>• Math History: Lobachevsky</li> <li>• Hyperbolic Geometry</li> </ul>	<ul style="list-style-type: none"> <li>• a worldview founded in God as revealed in His Word</li> </ul>
128	Geometry and Scripture—The Universe	454–55	<ul style="list-style-type: none"> <li>• Quiz 4 (10.7–10.8)</li> </ul>	<ul style="list-style-type: none"> <li>• a Euclidean universe?</li> </ul>
129	Chapter 10 Review	456–57	<ul style="list-style-type: none"> <li>• Terms and Symbols</li> <li>• Cumulative Review</li> </ul>	
130	Chapter 10 Test			

Chapter 11: Volume				
131	11.1 Meaning of Volume	458–64		<ul style="list-style-type: none"> <li>• bearing mature fruit in the Christian life</li> <li>• demonstrating the love of Christ</li> </ul>
132	11.2 Prisms	464–70	<ul style="list-style-type: none"> <li>• Math History: Cavalieri</li> </ul>	
133	11.3 Cylinders	471–74	<ul style="list-style-type: none"> <li>• Quiz 1 (11.1–11.2)</li> <li>• Volume Formulas</li> </ul>	
134	11.4 Pyramids and Cones	475–79	<ul style="list-style-type: none"> <li>• Quiz 2 (11.3)</li> <li>• Volume in Brief</li> <li>• Other Volumes</li> </ul>	
135	Analytic Geometry—Conic Sections	480–81	<ul style="list-style-type: none"> <li>• Quiz 3 (11.4)</li> <li>• Solids</li> </ul>	
136	11.5 Polyhedra and Spheres	482–87	<ul style="list-style-type: none"> <li>• Other Volumes</li> <li>• Polyhedra</li> <li>• Sphere Portions</li> </ul>	
137	Geometry Around Us—Engineering	488–89	<ul style="list-style-type: none"> <li>• Planar Projections</li> <li>• Calculator Skills</li> </ul>	
138	11.6 Constructions	490–93	<ul style="list-style-type: none"> <li>• Geometer's Sketchpad Investigations</li> <li>• Construction Skills</li> </ul>	
139	Geometry and Scripture—Volume	494–95	<ul style="list-style-type: none"> <li>• Quiz 4 (11.5–11.6)</li> <li>• Practice</li> <li>• Hell—The Rejection of Truth</li> </ul>	<ul style="list-style-type: none"> <li>• honesty in business involving volume measurement</li> <li>• hell is the ultimate result of rejecting Christ*</li> </ul>
140	Chapter 11 Review	496–97	<ul style="list-style-type: none"> <li>• Solids</li> <li>• Terms and Symbols</li> <li>• Cumulative Review</li> </ul>	
141	Chapter 11 Test			
142	Review Chapters 8–11			
143	Third Quarter Exam (Chapters 8–11)			



Day	Topic	Pages	Support Materials	Bible Integration
<b>Chapter 12: Transformations and Symmetry</b>				
144	12.1 Transformations	498–504	<ul style="list-style-type: none"> <li>Similar, Congruent, Symmetrical</li> </ul>	<ul style="list-style-type: none"> <li>God created us in His own image</li> <li>Paul's transformation</li> </ul>
145	12.2 Translations and Rotations	504–8	<ul style="list-style-type: none"> <li>Math History: Desargues</li> </ul>	
146	Analytic Geometry—Translating Conic Sections	509–10	<ul style="list-style-type: none"> <li>Quiz 1 (12.1–12.2)</li> </ul>	
147	12.3 Dilations	511–15	<ul style="list-style-type: none"> <li>Topological Transformations</li> <li>Similar, Congruent, Symmetrical</li> </ul>	
148	12.4 Invariance Under Transformations	515–19	<ul style="list-style-type: none"> <li>Construction Skills</li> <li>Similar, Congruent, Symmetrical</li> </ul>	<ul style="list-style-type: none"> <li>God is constant and unchanging</li> </ul>
149	Geometry Through History—Hilbert	520–21	<ul style="list-style-type: none"> <li>Quiz 2 (12.3–12.4)</li> <li>The Church—The Steward of Truth</li> </ul>	<ul style="list-style-type: none"> <li>the church (as it is guided, empowered, and built by Christ) is the steward of truth*</li> </ul>
150	12.5 Applications of Isometries	522–25	<ul style="list-style-type: none"> <li>Geometer's Sketchpad Investigations</li> <li>Isometries in Detail</li> </ul>	
151	12.6 Symmetry	525–27	<ul style="list-style-type: none"> <li>Symmetry in Brief</li> <li>Similar, Congruent, Symmetrical</li> </ul>	
152	Geometry and Scripture—Transformation	528–29	<ul style="list-style-type: none"> <li>Calculator Skills</li> <li>Quiz 3 (12.5–12.6)</li> </ul>	<ul style="list-style-type: none"> <li>transformation</li> </ul>
153	Chapter 12 Review	530–33	<ul style="list-style-type: none"> <li>Practice</li> <li>Terms and Symbols</li> <li>Cumulative Review</li> </ul>	
154	<b>Chapter 12 Test</b>			

<b>Chapter 13: Similarity</b>				
155	13.1 Similar Figures	534–39	<ul style="list-style-type: none"> <li>Transformations</li> <li>Similar, Congruent, Symmetrical</li> </ul>	<ul style="list-style-type: none"> <li>man is “fearfully and wonderfully made”</li> </ul>
156	Geometry Around Us—Art	540–41	<ul style="list-style-type: none"> <li>Paper Folding</li> </ul>	
157	13.2 Similar Triangles	542–47	<ul style="list-style-type: none"> <li>Man—The Battleground of Truth</li> </ul>	<ul style="list-style-type: none"> <li>new nature versus old nature*</li> </ul>
158	13.3 Similar Right Triangles	548–53	<ul style="list-style-type: none"> <li>Quiz 1 (13.1–13.2)</li> <li>Similar Right Triangles</li> </ul>	
159	Analytic Geometry—Slopes of Perpendicular Lines	554–55	<ul style="list-style-type: none"> <li>Quiz 2 (13.3)</li> <li>Math History: Klein</li> </ul>	
160	13.4 Similar Triangles and Proportions	556–59		
161	13.4 Review		<ul style="list-style-type: none"> <li>Quiz 3 (13.4)</li> </ul>	

Day	Topic	Pages	Support Materials	Bible Integration
162	13.5 Similar Triangles and Problem Solving	560–65	<ul style="list-style-type: none"> <li>• Geometer's Sketchpad Investigations</li> </ul>	<ul style="list-style-type: none"> <li>• applying biblical principles to everyday problems</li> </ul>
163	13.6 Circles and Proportions	566–70		
164	13.7 The Golden Ratio	571–75	<ul style="list-style-type: none"> <li>• Calculator Skills</li> <li>• Construction Skills</li> <li>• Golden Ratio in Detail</li> </ul>	
165	Geometry and Scripture—Art	576–77	<ul style="list-style-type: none"> <li>• Quiz 4 (13.5–13.7)</li> </ul>	<ul style="list-style-type: none"> <li>• created in His image</li> </ul>
166	Chapter 13 Review	578–79	<ul style="list-style-type: none"> <li>• Practice</li> <li>• Terms and Symbols</li> <li>• Cumulative Review</li> </ul>	
167	<b>Chapter 13 Test</b>			

<b>Chapter 14: Trigonometry</b>				
168	14.1 Trigonometric Ratios	580–87	<ul style="list-style-type: none"> <li>• Geometer's Sketchpad Investigations</li> <li>• Math History: Regiomontanus</li> <li>• Unit Circle</li> </ul>	<ul style="list-style-type: none"> <li>• evaluating your spiritual condition with biblical truth</li> </ul>
169	14.2 Special Triangles	588–91	<ul style="list-style-type: none"> <li>• Quiz 1 (14.1)</li> </ul>	<ul style="list-style-type: none"> <li>• God gives wisdom</li> </ul>
170	Geometry Around Us—Surveying	592–93	<ul style="list-style-type: none"> <li>• Cevians in Principle</li> </ul>	
171	14.3 Solving Right Triangles	594–98	<ul style="list-style-type: none"> <li>• Construction Skills</li> <li>• Golden Rectangle</li> </ul>	
172	Analytic Geometry—Measurement	599–600	<ul style="list-style-type: none"> <li>• Quiz 2 (14.2–14.3)</li> </ul>	
173	14.4 Trigonometric Identities	601–4	<ul style="list-style-type: none"> <li>• Unit Circle</li> <li>• Calculator Skills</li> </ul>	
174	14.5 Applications of Trigonometry	604–8	<ul style="list-style-type: none"> <li>• Quiz 3 (14.3–14.4)</li> <li>• Ellipses in Brief</li> </ul>	<ul style="list-style-type: none"> <li>• applying biblical principles to your life</li> </ul>
175	14.6 Trigonometry and Regular Polygons	609–11	<ul style="list-style-type: none"> <li>• God's Work</li> </ul>	<ul style="list-style-type: none"> <li>• natural revelation, providence, and special revelation from God*</li> </ul>
176	Geometry and Scripture—Angle Measure	612–13	<ul style="list-style-type: none"> <li>• Quiz 4 (14.5–14.6)</li> </ul>	<ul style="list-style-type: none"> <li>• angle measurement in the Bible</li> </ul>
177	Chapter 14 Review	614–15	<ul style="list-style-type: none"> <li>• Practice</li> <li>• Terms and Symbols</li> <li>• Cumulative Review</li> </ul>	
178	<b>Chapter 14 Test</b>			
179	Review Chapters 12–14			
180	<b>Fourth Quarter Exam (Chapters 12–14)</b>			