

Math 6, 4ed – Lesson Plan Overview

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 1: Number Systems					
1	1	1–3	1–3b	Additional Materials • Bible	Topic: Whole Number Place Value Skills: expressing numbers in multiple forms, rounding numbers, comparing numbers BWS: Knowledge
2	2	4–5	4–5b		Topic: Adding Whole Numbers Skills: applying addition strategies, adding whole numbers, estimating a sum
3	3	6–8	6–8a	Assessments • Chapter 1 Quiz 1	Topic: Subtracting Whole Numbers Skills: subtracting whole numbers, estimating a difference by rounding
4	4	9–11	9–11a	Teacher Resources • 1 <i>Decimal Number Lines</i> Additional Materials • Bible	Topic: Decimal Place Value Skills: expressing decimals in multiple forms, comparing and ordering decimals, rounding decimals BWS: Knowledge
5	5	12–13	12–13b		Topic: Adding & Subtracting Decimals Skills: applying addition properties to decimals, adding and subtracting decimals, estimating sums and differences
6	6	14–15	14–15b	Teacher Resources • 2 <i>Part-Whole Models</i> Assessments • Chapter 1 Quiz 2	Topic: Solving Problems Skills: using a part-whole model to solve word problems, solving multistep word problems
7	7	16–17	16–17b	Teacher Resources • 3 <i>Positive & Negative Number Line</i>	Topic: Positive & Negative Numbers Skills: comparing and ordering positive and negative numbers, adding positive and negative numbers using a number line BWS: Knowledge
8	8	18–19	18–19b	Teacher Resources • 4 <i>Roman Numerals</i> • 5 <i>Roman Numeral Sequences</i>	Topic: Roman Numerals Skills: reading and writing Roman numerals, completing a sequence of Roman numerals
9	9	20–21	20–21b	Teacher Resources • 6 <i>Number Patterns</i> • 7 <i>Patterns</i>	Topic: Patterns Skills: using logic to identify number patterns, using a pattern to solve a problem BWS: Knowledge
10	10	22–23	22–23b	Teacher Resources • 2 <i>Part-Whole Models</i>	Topic: Chapter Review
11	11	24–26	24–26	Teacher Resources • 8 <i>Cumulative Review Answer Sheet</i>	Topic: Test & Cumulative Review

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Chapter 2: Multiplying by a Whole Number					
12	12	27–29	27–29b	Teacher Resources • 9 <i>Applying Properties</i> Additional Materials • colored pencils: red and green	Topic: Multiplication Skills: identifying the greatest common factor and the least common multiple, applying properties of multiplication to numbers and variables BWS: Modeling
13	13	30–31	30–31b		Topic: Multiples of 10 Skills: multiplying multiples of 10, applying the Distributive Property of Multiplication over Addition
14	14	32–33	32–33b	Teacher Resources • 10 <i>Powers of 10</i> Additional Materials • graph paper Assessments • Chapter 2 Quiz 1	Topic: Exponents Skills: writing the values for 1^2 to 12^2 , writing the expanded form of a number using exponents BWS: Modeling
15	15	34–35	34–35b		Topic: 1- & 2-Digit Multipliers Skills: multiplying a whole number by a 1- or 2-digit multiplier, estimating a product by rounding
16	16	36–37	36–37b		Topic: Multiplying Decimals Skills: multiplying a decimal by a 1- or 2-digit multiplier, solving decimal word problems BWS: Modeling
17	17	38–39	38–39b	Assessments • Chapter 2 Quiz 2	Topic: 3-Digit Multipliers Skills: multiplying by a 3-digit multiplier, applying strategies to multiply mentally
18	18	40–41	40–41b	Teacher Resources • 11 <i>Graph Paper</i> • 12 <i>Perfect Squares & Square Roots</i> Additional Materials • calculators (optional)	Topic: Squares & Square Roots Skills: writing the first 20 perfect squares, writing the first 20 square roots, using the Pythagorean theorem BWS: Modeling
19	19	42–43	42–43b	Teacher Resources • 13 <i>Pictures of Multiplication</i>	Topic: Chapter Review
20	20	44–46	44–46	Teacher Resources • 8 <i>Cumulative Review Answer Sheet</i>	Topic: Test & Cumulative Review

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Chapter 3: Dividing by a Whole Number					
21	21	47–49	47–49b	Additional Materials • Bible	Topic: Division Skills: writing related equations, dividing to find a 2- or 3-digit quotient BWS: Service
22	22	50–51	50–51b	Teacher Resources • 14 <i>Short Form of Division</i>	Topic: Multiples of 10 Skills: divisibility rules, dividing multiples of 10 by using mental math, dividing by a 2-digit multiple of 10, estimating a quotient
23	23	52–53	52–53b	Assessments • Chapter 3 Quiz 1	Topic: 2-Digit Divisors Skills: estimating a quotient, dividing by a 2-digit divisor BWS: Service
24	24	54–55	54–55b		Topic: Dividing a Decimal by a Whole Number Skills: dividing a decimal by a 1-digit whole number, annexing a 0 to rename a decimal, estimating a quotient, expressing a fraction as an equivalent decimal
25	25	56–57	56–57b		Topic: Dividing a Decimal by 2-Digit Divisors Skills: determining an average or a unit rate, dividing a decimal by a 2-digit whole number, expressing a fraction as an equivalent decimal BWS: Service
26	26	58–59	58–59b		Topic: Dividing by a Power of 10 Skills: dividing by a power of 10, estimating and solving division word problems, dividing a whole number or decimal by a 3-digit divisor
27	27	60–61	60–61b	Assessments • Chapter 3 Quiz 2	Topic: Order of Operations Skills: using the order of operations to simplify an expression, completing an expression to make an equation true
28	28	62–63	62–63b	Teacher Resources • 15 <i>Ticket in the Door</i> • 16 <i>Multistep Problems</i> Additional Materials • Bible	Topic: Multistep Problems Skills: solving multistep problems using the order of operations BWS: Service
29	29	64–65	64–65b		Topic: Chapter Review
30	30	66–68	66–68		Topic: Test & Cumulative Review

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Chapter 4: Fraction Theory					
31	31	69–71	69–71b		Topic: Greatest Common Factor Skills: determining the greatest common factor, applying the GCF to problem-solving situations BWS: Design
32	32	72–73	72–73b		Topic: Least Common Multiple Skills: determining the least common multiple, applying the LCM to problem-solving situations
33	33	74–75	74–75b	Additional Materials • inch ruler (eighths)	Topic: Proper Fractions Skills: writing a fraction, completing a fraction model
34	34	76–77	76–77b	Assessments • Chapter 4 Quiz 1	Topic: Improper Fractions & Mixed Numbers Skills: renaming improper fractions and mixed numbers
35	35	78–79	78–79b	Additional Materials • blank sheets of paper	Topic: Equivalent Fractions Skills: renaming fractions to higher or lower terms BWS: Design
36	36	80–81	80–81b		Topic: Comparing & Ordering Fractions Skills: comparing and ordering fractions and mixed numbers
37	37	82–83	82–83b	Assessments • Chapter 4 Quiz 2	Topic: More Comparing Fractions Skills: using strategies to compare and order fractions
38	38	84–85	84–85b	Teacher Resources • <i>17 Percent Circle</i> Additional Materials • blank sheets of paper	Topic: Fractions & Percents Skills: writing a percent as a fraction and a fraction as a percent
39	39	86–87	86–87b		Topic: Chapter Review BWS: Design
40	40	88–89	88–89		Topic: Test & Cumulative Review

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Chapter 5: Adding & Subtracting Fractions					
41	41	90, 92–93	90–93b	Teacher Resources • 18 <i>Fraction Number Lines</i>	Topic: Estimating Sums & Differences Skills: identifying fractions equivalent to 1 and to $\frac{1}{2}$, estimating sums and differences of mixed numbers and fractions by rounding
42	42	91, 94–95	94–95b		Topic: Adding & Subtracting Like Fractions Skills: adding and subtracting fractions, applying addition properties to fractions BWS: Knowledge
43	43	96–97	96–97b		Topic: Adding & Subtracting Related Fractions Skills: performing operations with unlike but related denominators, solving fraction word problems
44	44	98–99	98–99b	Teacher Resources • 19 <i>Trees</i> • 20 <i>Unlike Denominators</i> Assessments • Chapter 5 Quiz 1	Topic: Adding & Subtracting Unlike Fractions Skills: performing operations with unlike and unrelated denominators, multiplying unlike denominators to find a common denominator BWS: Knowledge
45	45	100–101	100–101b		Topic: More Fractions & Mixed Numbers Skills: solving problems with 3 addends, solving problems by using the least common denominator
46	46	102–3	102–3b	Teacher Resources • 21 <i>Guess & Check</i>	Topic: Guess & Check Skills: using the guess-and-check strategy BWS: Knowledge
47	47	104–5	104–5b		Topic: Chapter Review BWS: Knowledge
48	48	106–8	106–8		Topic: Test & Cumulative Review
49	49	91, 109–10	109–10a	Teacher Resources • 22 <i>UV Skin Damage</i> • 23 <i>Electromagnetic Spectrum, UV Rays & SPF</i> • 24 <i>UV and Me Basics</i> • 25 <i>Engineering Design Process</i> Additional Materials • See Lesson 49 list.	Topic: STEM: UV and Me Skills: defining a problem, creating a model, calculating UV rays based on UPF
50	50	109–10	110b–c	Teacher Resources • 25 <i>Engineering Design Process</i> Additional Materials • See Lesson 50 list.	Topic: STEM: UV and Me Skills: devising a scale, collecting data BWS: Knowledge
51	51	109–10	110d–e	Teacher Resources • 26 <i>STEM Rubric: UV and Me</i> Additional Materials • See Lesson 51 list.	Topic: STEM: UV and Me Skills: designing, constructing, presenting, and assessing a UV-protective clothing prototype; improving a design BWS: Knowledge

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Chapter 6: Plane Figure Geometry					
52	52	111–13	111–13b	Teacher Resources <ul style="list-style-type: none"> • 27 <i>Coordinate Plane</i> • 28 <i>Coordinate Planes</i> Additional Materials <ul style="list-style-type: none"> • string • card stock 	Topic: Basic Geometric Figures Skills: identifying and naming points, lines, and planes; graphing and identifying points on a coordinate plane BWS: Design
53	53	114–15	114–15b	Teacher Resources <ul style="list-style-type: none"> • 28 <i>Coordinate Planes</i> Additional Materials <ul style="list-style-type: none"> • rulers • small rectangular poster 	Topic: Types of Lines Skills: graphing points of a coordinate plane to form intersecting or parallel lines, using variables to represent coordinates on a coordinate plane
54	54	116–17	116–17b	Teacher Resources <ul style="list-style-type: none"> • 29 <i>Angles</i> Additional Materials <ul style="list-style-type: none"> • chalk or markers • blank sheets of paper • protractors 	Topic: Classifying & Measuring Angles Skills: naming angles and rays, classifying and measuring angles
55	55	118–19	118–19b	Teacher Resources <ul style="list-style-type: none"> • 30 <i>Supplementary Angles</i> • 31 <i>Complementary Angles</i> • 32 <i>Complementary & Supplementary Angles</i> Additional Materials <ul style="list-style-type: none"> • protractors Assessments <ul style="list-style-type: none"> • Chapter 6 Quiz 1 	Topic: Angle Relationships Skills: finding the unknown measure of an angle in a pair of supplementary or complementary angles
56	56	120–21	120–21b	Teacher Resources <ul style="list-style-type: none"> • 27 <i>Coordinate Plane</i> • 28 <i>Coordinate Planes</i> Additional Materials <ul style="list-style-type: none"> • toothpicks or craft sticks • rulers 	Topic: Polygons Skills: identifying and naming line segments, distinguishing regular and irregular polygons, graphing points on a coordinate plane
57	57	122–23	122–23b	Teacher Resources <ul style="list-style-type: none"> • 33 <i>Triangles</i> Additional Materials <ul style="list-style-type: none"> • scissors • protractors • rulers 	Topic: Triangles Skills: finding the unknown measure of an angle in a triangle, classifying triangles by their angles and by their sides

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58	58	124–25	124–25b	Teacher Resources <ul style="list-style-type: none"> • 34 <i>Hierarchy of Quadrilaterals</i> • 35 <i>Quadrilaterals</i> • 36 <i>Polygon Angle Measure</i> Additional Materials <ul style="list-style-type: none"> • protractors • rulers 	Topic: Quadrilaterals Skills: classifying quadrilaterals and stating the sum of their angles, finding the unknown measure of an angle in a quadrilateral BWS: Design

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59	59	126–27	126–27b	Teacher Resources <ul style="list-style-type: none"> • 37 <i>Congruent & Similar Polygons</i> Additional Materials <ul style="list-style-type: none"> • construction paper • protractors • rulers • tracing paper • graph paper 	Topic: Congruent & Similar Figures Skills: identifying and drawing congruent and similar polygons, writing a ratio for corresponding sides in a pair of polygons
60	60	128–29	128–29b	Teacher Resources <ul style="list-style-type: none"> • 38 <i>Transformations</i> • 39 <i>Block Letters</i> Additional Materials <ul style="list-style-type: none"> • construction paper • notebook paper 	Topic: Transformations & Symmetry Skills: demonstrating a translation, reflection, and rotation BWS: Design
61	61	130–31	130–31b	Additional Materials <ul style="list-style-type: none"> • protractors • rulers • blank sheets of paper Assessments <ul style="list-style-type: none"> • Chapter 6 Quiz 2 	Topic: Circles Skills: identifying the parts of a circle, measuring central angles; making a circle graph to represent given data
62	62	132–33	132–33b	Teacher Resources <ul style="list-style-type: none"> • 40 <i>Polyhedrons</i> Additional Materials <ul style="list-style-type: none"> • set of 3-dimensional figures • 3 × 5 cards • transparent tape 	Topic: 3-Dimensional Figures Skills: constructing and classifying 3-dimensional figures
63	63	134–35	134–35b	Teacher Resources <ul style="list-style-type: none"> • 28 <i>Coordinate Planes</i> • 32 <i>Complementary & Supplementary Angles</i> • 33 <i>Triangles</i> • 35 <i>Quadrilaterals</i> • 38 <i>Transformations</i> Additional Materials <ul style="list-style-type: none"> • protractors • rulers 	Topic: Chapter Review
64	64	136–38	136–38		Topic: Test & Cumulative Review

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Chapter 7: Multiplying Fractions & Decimals					
65	65	139–41	139–41b	Teacher Resources <ul style="list-style-type: none"> • 41 <i>Fraction Paper Folding</i> Additional Materials <ul style="list-style-type: none"> • counters • blank sheets of paper 	Topic: Multiplying Fractions Skills: multiplying a whole number and a fraction, multiplying to find a fraction of a whole number or of a fraction BWS: Modeling
66	66	142–43	142–43b		Topic: Simplifying Skills: multiplying fractions by using cancellation, identifying the reciprocal of a fraction
67	67	144–45	144–45b		Topic: Multiplying Mixed Numbers Skills: applying the Distributive Property of Multiplication to mixed numbers
68	68	146–47	146–47b	Assessments <ul style="list-style-type: none"> • Chapter 7 Quiz 1 	Topic: Multiplying Decimals Skills: estimating a decimal product by rounding, applying the Distributive Property of Multiplication to decimals BWS: Modeling
69	69	148–49	148–49b	Additional Materials <ul style="list-style-type: none"> • graph paper • colored markers: red and blue 	Topic: More Multiplying Decimals Skills: multiplying a decimal by a decimal, multiplying money by a decimal
70	70	150–51	150–51b	Teacher Resources <ul style="list-style-type: none"> • 42 <i>In-between Numbers</i> 	Topic: Finding In-between Numbers Skills: identifying fractions and decimals that come between two numbers, solving a multistep word problem BWS: Modeling
71	71	152–53	152–53b		Topic: Chapter Review
72	72	154–56	154–56		Topic: Test & Cumulative Review

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Chapter 8: Dividing Fractions					
73	73	157–59	157–59b		Topic: Dividing by a Fraction Skills: dividing whole numbers, fractions, and mixed numbers by fractions
74	74	160–61	160–61b	Additional Materials <ul style="list-style-type: none"> • Bible • colored markers or chalk: 2 colors • colored pencils: 2 colors 	Topic: More Dividing Fractions Skills: dividing a fraction to find a quotient with a remainder, dividing by using a model BWS: Service
75	75	162–63	162–63b	Additional Materials <ul style="list-style-type: none"> • colored markers or chalk: 3 colors 	Topic: Multiplying by the Reciprocal Skills: dividing a fraction by a fraction or a whole number by multiplying by the reciprocal
76	76	164–65	164–65b	Additional Materials <ul style="list-style-type: none"> • Bible Assessments <ul style="list-style-type: none"> • Chapter 8 Quiz 1 	Topic: Mixed Numbers & Reciprocals Skills: dividing a mixed number by multiplying by the reciprocal, solving fraction word problems BWS: Service
77	77	166–67	166–67b		Topic: Multistep Equations Skills: using the order of operations to write an equation and solve a multistep word problem
78	78	168–69	168–69b		Topic: Applying Mathematical Properties Skills: using mathematical properties and the order of operations to evaluate an expression, substituting a given value for a variable in an expression
79	79	170–71	170–71b	Teacher Resources <ul style="list-style-type: none"> • 43 <i>Multistep Word Problems</i> 	Topic: More Multistep Word Problems Skills: solving a multistep equation for a multistep word problem BWS: Service
80	80	172–73	172–73b		Topic: Chapter Review BWS: Service
81	81	174–77	174–77		Topic: Test & Cumulative Review

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Chapter 9: Dividing Decimals					
82	82	178, 180–81	178, 180–81b	Teacher Resources <ul style="list-style-type: none"> • 11 <i>Graph Paper</i> • 44 <i>Birthday Party Plans</i> Additional Materials <ul style="list-style-type: none"> • scissors • calculators (optional) 	Topic: Dividing Decimals Skills: dividing a decimal by a 1-digit whole number, renaming a decimal by annexing a 0, using mental math to divide a decimal by a power of 10 BWS: Knowledge
83	83	179, 182–83	179, 182–83b		Topic: Estimating Quotients Skills: dividing a decimal by a 2-digit whole number, dividing to find a decimal fraction
84	84	184–85	184–85b	Assessments <ul style="list-style-type: none"> • Chapter 9 Quiz 1 	Topic: Repeating Decimals & Rounding Quotients Skills: indicating a repeating decimal, solving money word problems BWS: Knowledge
85	85	186–87	186–87b	Teacher Resources <ul style="list-style-type: none"> • 11 <i>Graph Paper</i> 	Topic: Renaming Fractions as Decimals Skills: identifying a quotient as a repeating decimal or a non-repeating, non-terminating decimal
86	86	188–90	188–90a		Topic: Dividing a Decimal by a Decimal Skills: dividing a whole number by a decimal, solving a word problem involving decimal division BWS: Knowledge
87	87	191–92	191–92b	Teacher Resources <ul style="list-style-type: none"> • 11 <i>Graph Paper</i> • 45 <i>Input/Output Tables</i> Assessments <ul style="list-style-type: none"> • Chapter 9 Quiz 2 	Topic: More Dividing Decimals Skills: dividing a decimal by a decimal, completing a division input/output table including decimals
88	88	193–95	193–95a	Additional Materials <ul style="list-style-type: none"> • calculators 	Topic: Real Numbers Skills: classifying real numbers, applying addition and multiplication properties to real numbers BWS: Knowledge
89	89	196–97	196–97	Teacher Resources <ul style="list-style-type: none"> • 46 <i>Dividing Decimals</i> 	Topic: Chapter Review
90	90	198–200	198–200		Topic: Test & Cumulative Review
91	91	179, 201–2	179, 201–2a	Teacher Resources <ul style="list-style-type: none"> • 25 <i>Engineering Design Process</i> • 47 <i>Classroom Layout Graph Paper</i> • 48 <i>Sample Classroom Layout</i> Additional Materials <ul style="list-style-type: none"> • See Lesson 91 list. 	Topic: STEM: What's Your Plan? Skills: identifying a problem, collaborating on a solution, preparing a model

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92	92	201–2	202b–c	Teacher Resources <ul style="list-style-type: none"> • 49 <i>Sample Evacuation Plan Model</i> • 50 <i>Sample Evacuation Plan Algorithms</i> Additional Materials <ul style="list-style-type: none"> • See Lesson 92 list. 	Topic: STEM: What’s Your Plan? Skills: mapping, testing, & revising a route; writing an algorithm using coding terms; debugging an algorithm
93	93	179, 201–2	179, 202d	Teacher Resources <ul style="list-style-type: none"> • 51 <i>STEM Rubric: What’s Your Plan?</i> Additional Materials <ul style="list-style-type: none"> • See Lesson 93 list. 	Topic: STEM: What’s Your Plan? Skills: debugging and running a program BWS: Modeling

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Chapter 10: Equations					
94	94	203–5	203–5b		Topic: Expressions Skills: writing numerical or algebraic expressions, evaluating expressions using substitution
95	95	206–7	206–7b		Topic: Equations Skills: writing an equation with two equal expressions, determining the unknown in a word problem and writing it as a variable BWS: Modeling
96	96	208–9	208–9b	Teacher Resources • 52 <i>Variable Cards N</i> • 53 <i>Variable Cards X</i> Additional Materials • 18 round counters	Topic: Simplifying Expressions Skills: computing sums and products that are multiples of 10, simplifying algebraic expressions by applying the Commutative and Associative Properties
97	97	210–11	210–11b	Additional Materials • 1 <i>n</i> card and 1 <i>x</i> card from the patterns provided on the <i>Variable Cards</i> pages • 30 round counters	Topic: Addition & Subtraction Equations Skills: solving addition and subtraction equations using inverse operations, checking addition and subtraction equations using substitution BWS: Modeling
98	98	212–13	212–13b	Additional Materials • 5 <i>n</i> cards from the pattern provided on the <i>Variable Cards N</i> page • 15 round counters	Topic: Multiplication Equations Skills: solving multiplication equations using division (inverse operation)
99–100	99	214–15	214–15b		Topic: Multiplication & Division Equations Skills: solving multiplication and division equations using inverse operations, plotting an inequality on a number line, determining whether a given number is a solution to an inequality
101	100	216–17	216–17b	Additional Materials • geographic compass or picture of one Assessments • Chapter 10 Quiz 1	Topic: Equivalent Expressions Skills: finding equivalent expressions by applying the Distributive Property, solving equations using inverse operations BWS: Modeling
102	101	218–19	218–19b	Teacher Resources • 54 <i>Graphing an Equation</i>	Topic: $Distance = Rate \times Time$ Skills: solving problems using the $d = rt$ formula, completing a table using the $d = rt$ formula BWS: Modeling
103	102	220–21	220–21b		Topic: Chapter Review
104	103	222–24	222–24		Topic: Test & Cumulative Review

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Chapter 11: Perimeter & Area					
105	104	225–27	225–27b	Additional Materials • ruler	Topic: Perimeter Skills: calculating the unknown length of a side of a polygon, solving an algebraic expression to find the perimeter of a rectangle
106	105	228–30	228–30a	Teacher Resources • 55 <i>Finding the Circumference</i> Additional Materials • cylindrical objects • rulers • calculators • 12 in. lengths of string	Topic: Circumference Skills: calculating the circumference of a circle using a formula, calculating the diameter of a circle given the circumference BWS: Design
107	106	231–33	231–33a	Teacher Resources • 56 <i>Area: Rectangles, Squares & Parallelograms</i> Additional Materials • scissors Assessments • Chapter 11 Quiz 1	Topic: Area of Parallelograms Skills: calculating the areas of parallelograms using a formula, calculating the area of a complex figure
108	107	234–35	234–35b	Teacher Resources • 57 <i>Area: Triangles</i> Additional Materials • rulers • calculators	Topic: Area of Triangles Skills: calculating the area of triangles using a formula, calculating the unknown height or base of a triangle BWS: Design
109	108	236–37	236–37b	Teacher Resources • 58 <i>Area: Circles</i> Additional Materials • rulers • calculators	Topic: Area of Circles Skills: calculating the area of a circle using a formula, estimating the area of a circle
110	109	238–39	238–39b	Teacher Resources • 59 <i>Surface Area: Triangular Prism</i> Additional Materials • classroom set of 3-dimensional figures or real-world objects • cereal boxes • rulers • transparent tape Assessments • Chapter 11 Quiz 2	Topic: Surface Area of Prisms Skills: calculating the surface area of prisms using formulas, constructing a triangular prism BWS: Design

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111	110	240–41	240–41b	Teacher Resources <ul style="list-style-type: none"> • 60 <i>Surface Area</i> Additional Materials <ul style="list-style-type: none"> • small oatmeal container • 2 sheets of 12" × 18" construction paper • rulers • transparent tape • cylinders • sheets of construction paper • calculators 	Topic: Surface Area of Cylinders Skills: calculating the surface area of a cylinder using formulas, constructing a cylinder net
112	111	242–43	242–43b	Teacher Resources <ul style="list-style-type: none"> • 11 <i>Graph Paper</i> • 61 <i>Floor Plan Activity</i> • 62 <i>Floor Plan Grid</i> Additional Materials <ul style="list-style-type: none"> • samples of floor plans • rulers • calculators • scissors • sheets of 9" × 12" construction paper • glue sticks 	Topic: Fixed Areas Skills: calculating the area and perimeter of a rectangle, calculating the area of a complex figure, relating geometry to real-world situations BWS: Design
113	112	244–45	244–45b	Teacher Resources <ul style="list-style-type: none"> • 60 <i>Surface Area</i> • 63 <i>Geometry Review I</i> • 64 <i>Geometry Review II</i> • 65 <i>Nets</i> Additional Materials <ul style="list-style-type: none"> • calculators 	Topic: Chapter Review
114	113	246–48	246–48		Topic: Test & Cumulative Review

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Chapter 12: Volume					
115	114	249–51	249–51b	Teacher Resources <ul style="list-style-type: none"> • 66 <i>Shipping Volume</i> Additional Materials <ul style="list-style-type: none"> • blank sheets of 8 ½" × 11" paper • a clear storage container with lid • cube-shaped blocks • a rectangular prism-shaped block • a ruler 	Topic: Volume of Rectangular Prisms Skills: finding the volume of a rectangular prism by using a model or a formula BWS: Service
116	115	252–53	252–53b	Additional Materials <ul style="list-style-type: none"> • blank sheets of 8 ½" × 11" paper • cube-shaped blocks 	Topic: Volume of Cubes Skills: finding the volume of a cube by using a model or a formula, calculating an unknown measurement, solving a word problem
117	116	254–55	254–55b	Teacher Resources <ul style="list-style-type: none"> • 67 <i>Triangular Prisms & Cylinders</i> Additional Materials <ul style="list-style-type: none"> • blank sheets of 8 ½" × 11" paper • cube-shaped blocks • calculators Assessments <ul style="list-style-type: none"> • Chapter 12 Quiz 1 	Topic: Volume of Other 3D Figures Skills: finding the volume of an irregular prism by using a model, calculating the volume of a triangular prism or a cylinder BWS: Service
118–19	117	256–57	256–57b	Teacher Resources <ul style="list-style-type: none"> • 68 <i>Fixed Volume</i> Additional Materials <ul style="list-style-type: none"> • cube-shaped blocks • sheets of 9" × 12" construction paper • rulers • transparent tape • box lids or rectangular pans • 1 c measuring cups • rice, unpopped popcorn, or dried beans • calculators 	Topic: Fixed Volumes & Fixed Lateral Surfaces Skills: constructing prisms with the same volume but different surface areas, constructing cylindrical figures with the same lateral surface area but different volumes
120	118	258–59	258–59b	Teacher Resources <ul style="list-style-type: none"> • 69 <i>Volume Review</i> • 70 <i>Volume Word Problems</i> Additional Materials <ul style="list-style-type: none"> • copies of area drawings • cube-shaped blocks • calculators 	Topic: Chapter Review BWS: Service
121	119	260–63	260–63		Topic: Test & Cumulative Review

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 13: Ratios, Proportions & Percents					
122	120	264, 266–67	264, 266–67b	Additional Materials • pennies, nickels, dimes, and quarters	Topic: Ratios & Rates Skills: writing a ratio in three forms, finding equivalent ratios, determining the unit rate BWS: Design
123	121	265, 268–69	265, 268–69b	Teacher Resources • 72 <i>Pictured Ratios</i> • 73 <i>Ratio Tables</i>	Topic: Ratio Tables Skills: completing a ratio table, solving problems using ratio tables
124	122	270–71	270–71b	Additional Materials • black and red counters	Topic: Solving Proportions Skills: determining whether two ratios are proportional, solving for a missing term in a proportion BWS: Design
125	123	272–74	272–74a	Teacher Resources • 11 <i>Graph Paper</i> • 74 <i>Missing Measurements</i> Additional Materials • rulers or straight edges	Topic: Similar Figures Skills: finding the unknown measure in similar figures, using indirect measurement to find the unknown measure
126	124	275–77	275–77a	Additional Materials • modeling clay • a map • rulers • calculators Assessments • Chapter 13 Quiz 1	Topic: Scale Skills: finding actual measurements using a scale and a scale drawing, map, or model; determining the unknown measure on a scale drawing BWS: Design
127	125	278–79	278–79b	Teacher Resources • 11 <i>Graph Paper</i> • 75 <i>Percent</i> Additional Materials • calculators	Topic: Percent Skills: expressing percents as ratios, decimals, and fractions; expressing decimals and fractions as percents
128	126	280–81	280–81b	Teacher Resources • 76 <i>Percent Models: Finding the Part</i> Additional Materials • calculators	Topic: Finding the Percent of a Number Skills: finding the percent of a number by using an equation, a model, and a proportion; solving percent word problems
129	127	282–84	282–84a	Teacher Resources • 77 <i>Percent Models: Finding the Whole</i> Additional Materials • calculators Assessments • Chapter 13 Quiz 2	Topic: Finding the Unknown Whole Skills: finding the unknown whole in a percent problem by using a model, an equation, and a proportion; solving percent word problems

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
130	128	285–87	285–87a	Additional Materials • calculators	Topic: Speed, Distance & Time Skills: calculating the distance, the rate of speed, and the time; finding an equivalent rate by using a proportion BWS: Design
131	129	288–89	288–89b	Teacher Resources • 78 <i>Circle Graph: Elements in the Earth's Crust</i> Additional Materials • calculators	Topic: Chapter 13 Review
132	130	290–92	290–92		Topic: Test & Cumulative Review
133	131	265, 293–94	265, 293–94a	Teacher Resources • 11 <i>Graph Paper</i> • 25 <i>Engineering Design Process</i> • 79 <i>Bridge & Truss Designs</i> Additional Materials • See Lesson 131 list.	Topic: STEM: Building a Bridge Skills: identifying and researching a problem, suggesting solutions, collaborating on a design
134	132	293–94	294b	Teacher Resources • 80 <i>STEM Rubric: Building a Bridge</i> Additional Materials • See Lesson 132 list.	Topic: STEM: Building a Bridge Skills: building a bridge prototype according to specifications
135	133	293–94	294c–d	Additional Materials • See Lesson 133 list.	Topic: STEM: Building a Bridge Skills: testing a design, analyzing a design with math, solving a problem by using a ratio BWS: Design

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 14: Measurement					
136	134	295–97	295–97b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 11 <i>Graph Paper</i> • 81 <i>Measurement Flashcards</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • rulers • a yardstick • a measuring tape (customary) • colored pencils 	<p>Topic: Linear Measurement</p> <p>Skills: estimating, measuring, and converting linear measurements; finding a fraction of a measurement unit; adding and subtracting linear measurements</p> <p>BWS: Knowledge</p>
137	135	298–99	298–99b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 82 <i>Customary Measurement Craze</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • a spring scale • a 1 lb loaf of bread • objects to weigh • customary measurement containers • waterproof containers • water (2 gal) • food coloring (optional) 	<p>Topic: Weight & Capacity</p> <p>Skills: estimating, weighing, measuring, and converting customary weight and capacity measurements; adding and subtracting customary weight and capacity measurements</p>
138	136	300–301	300–301b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 83 <i>Metric Measurement</i> • 84 <i>Metric Measure Mania</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • a meter stick • a yardstick • measuring tapes (metric) • paper clips 	<p>Topic: Metric Linear Measurement</p> <p>Skills: estimating, measuring, and converting metric linear measurements; determining the appropriate linear measurement; comparing measurements by using > or <; adding and subtracting metric linear measurements</p>
139	137	302–3	302–3b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 83 <i>Metric Measurement</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • 1 L bottles of water • a 1 L beaker • a 5 mL plastic syringe • water for measuring • food coloring (optional) • waterproof containers • additional containers for measuring • a balance or metric scale <p>Assessments</p> <ul style="list-style-type: none"> • Chapter 14 Quiz 1 	<p>Topic: Metric Capacity & Mass</p> <p>Skills: estimating, measuring, and converting metric capacity and mass measurements</p> <p>BWS: Knowledge</p>
140	138	304–5	304–5b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 81 <i>Measurement Flashcards</i> • 85 <i>Customary Measurement Word Problems</i> • 86 <i>Metric Measurement Word Problems</i> 	<p>Topic: Customary & Metric Systems</p> <p>Skills: solving measurement word problems</p>

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
141	139	306–7	306–7b	Teacher Resources <ul style="list-style-type: none"> • 87 <i>Thermometer</i> • 88 <i>Temperature Hunt</i> • 89 <i>Double-Scale Thermometer</i> Additional Materials <ul style="list-style-type: none"> • waterproof containers • water • waterproof thermometers • additional thermometers • rulers 	Topic: Fahrenheit & Celsius Skills: identifying standard Celsius and Fahrenheit temperatures, determining a reasonable temperature, reading a thermometer, determining the difference between temperatures, measuring temperatures, converting temperatures between systems
142	140	308–9	308–9b	Teacher Resources <ul style="list-style-type: none"> • 81 <i>Measurement Flashcards</i> • 90 <i>Customary & Metric Conversions</i> Additional Materials <ul style="list-style-type: none"> • a larger set of measurement flashcards • measurable objects • rulers 	Topic: Relating Customary & Metric Units Skills: identifying approximate equivalencies between customary and metric units of measurement, comparing customary and metric measurements, estimating conversions between customary and metric measurements BWS: Knowledge
143	141	310–11	310–11b	Teacher Resources <ul style="list-style-type: none"> • 91 <i>Time Measurement</i> Additional Materials <ul style="list-style-type: none"> • a demonstration clock 	Topic: Telling & Renaming Time Skills: differentiating between a.m. and p.m., converting units of time, finding a fraction of a unit of time, adding and subtracting time
144	142	312–13	312–13b	Teacher Resources <ul style="list-style-type: none"> • 91 <i>Time Measurement</i> • 92 <i>Time Zones of the World</i> • 93 <i>Time Zones</i> Additional Materials <ul style="list-style-type: none"> • demonstration clocks Assessments <ul style="list-style-type: none"> • Chapter 14 Quiz 2 	Topic: Elapsed Time & Time Zones Skills: using a table to determine world time zones, determining elapsed time BWS: Knowledge
145	143	314–15	314–15b	Teacher Resources <ul style="list-style-type: none"> • 92 <i>Time Zones of the World</i> • 94 <i>Map Key</i> • 95 <i>Blank Thermometer</i> Additional Materials <ul style="list-style-type: none"> • labeled measurable objects from Lesson 140 • measuring tools • rulers 	Topic: Renaming Units of Measure Skills: estimating customary and metric measurements, calculating measurements, solving measurement word problems, determining mileage by using a map scale
146	144	316–17	316–17b		Topic: Unit Multipliers Skills: writing an equivalency as a unit multiplier, converting measurements by using a unit multiplier

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
147	145	318–19	318–19b	Teacher Resources <ul style="list-style-type: none"> • 95 <i>Blank Thermometer</i> Additional Materials <ul style="list-style-type: none"> • a larger set of measurement flashcards from Lesson 140 • demonstration clocks 	Topic: Chapter Review
148	146	320–23	320–23	Additional Materials <ul style="list-style-type: none"> • demonstration clocks (optional) 	Topic: Test & Cumulative Review

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 15: Statistics					
149	147	324, 326–27	324, 326–27b	Teacher Resources <ul style="list-style-type: none"> • 96 <i>Frequency Tables</i> Additional Materials <ul style="list-style-type: none"> • calculators 	Topic: Statistics Skills: completing a frequency table; determining the range, median, and mode for a set of data; calculating the mean BWS: Service
150	148	325, 328–29	325, 328–29b	Teacher Resources <ul style="list-style-type: none"> • 97 <i>Double Bar Graph</i> • 98 <i>Double Line Graph</i> • 99 <i>Types of Graphs</i> 	Topic: Double Bar & Double Line Graphs Skills: interpreting a double bar and a double line graph
151	149	330–31	330–31b	Teacher Resources <ul style="list-style-type: none"> • 99 <i>Types of Graphs</i> • 100 <i>Stem-and-Leaf Plot</i> 	Topic: Stem-and-Leaf Plots Skills: interpreting and completing a stem-and-leaf plot
152	150	332–33	332–33b	Teacher Resources <ul style="list-style-type: none"> • 99 <i>Types of Graphs</i> • 101 <i>Line Plot</i> Additional Materials <ul style="list-style-type: none"> • 3 × 5 cards Assessments <ul style="list-style-type: none"> • Chapter 15 Quiz 1 	Topic: Line Plots Skills: interpreting and recording data on a line plot, determining the effects of an outlier
153	151	334–35	334–35b	Teacher Resources <ul style="list-style-type: none"> • 99 <i>Types of Graphs</i> • 102 <i>Restaurant Statistics</i> • 103 <i>Histogram: Piano Practice Statistics</i> • 104 <i>Histogram</i> Additional Materials <ul style="list-style-type: none"> • rulers 	Topic: Histograms Skills: interpreting and constructing a histogram BWS: Service
154	152	336–37	336–37b	Teacher Resources <ul style="list-style-type: none"> • 99 <i>Types of Graphs</i> • 105 <i>Box-and-Whisker Plot: Points Scored</i> • 106 <i>Box-and-Whisker Plot</i> Additional Materials <ul style="list-style-type: none"> • rulers 	Topic: Box-and-Whisker Plots Skills: interpreting a box-and-whisker plot; determining the lower, middle, and upper quartiles of a set of data; constructing a box-and-whisker plot
155	153	338–39	338–39b	Teacher Resources <ul style="list-style-type: none"> • 107 <i>Graph: Double Bar Graph</i> • 108 <i>Graph: Double Line Graph</i> • 109 <i>Stem-and-Leaf Plot & Line Plot</i> • 110 <i>Graph: Histogram</i> • 111 <i>Graph: Box-and-Whisker Plot</i> Assessments <ul style="list-style-type: none"> • Chapter 15 Quiz 2 	Topic: Graph Review Skills: interpreting graphs BWS: Service

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
156	154	340–41	340–41b	Teacher Resources <ul style="list-style-type: none"> • 112 <i>Data</i> Additional Materials <ul style="list-style-type: none"> • prepared terms and definitions from <i>Types of Graphs</i>, pages 1–4 • 3 × 5 cards 	Topic: Comparing Graphs Skills: choosing a graph to display a set of data
157	155	342–43	342–43b	Teacher Resources <ul style="list-style-type: none"> • 97 <i>Double Bar Graph</i> • 98 <i>Double Line Graph</i> • 103 <i>Histogram: Piano Practice Statistics</i> • 105 <i>Box-and-Whisker Plot: Points Scored</i> Additional Materials <ul style="list-style-type: none"> • prepared terms and definitions from <i>Types of Graphs</i>, pages 1–4 • Bible 	Topic: Chapter Review BWS: Service
158	156	344–46	344–46		Topic: Test & Cumulative Review
159	157	325, 347–48	347–48a	Teacher Resources <ul style="list-style-type: none"> • 25 <i>Engineering Design Process</i> • 113 <i>Business Idea Organizer</i> Additional Materials <ul style="list-style-type: none"> • examples of successful young entrepreneurs (optional) 	Topic: STEM: Entrepreneurship Skills: identifying and researching a problem, recording possible solutions, identifying a workable solution
160	158	347–48	348b–c	Teacher Resources <ul style="list-style-type: none"> • 114 <i>Rover's Romps Business Plan</i> • 115 <i>Business Plan</i> Additional Materials <ul style="list-style-type: none"> • completed <i>Business Idea Organizer</i> pages 	Topic: STEM: Entrepreneurship Skills: assembling business data, writing a business plan BWS: Service
161	159	347–48	348d–e	Teacher Resources <ul style="list-style-type: none"> • 116 <i>Rover's Romps Profit Projection</i> • 117 <i>Business Profit Projection</i> • 118 <i>STEM Rubric: Entrepreneurship</i> Additional Materials <ul style="list-style-type: none"> • completed <i>Business Plan</i> pages 	Topic: STEM: Entrepreneurship Skills: testing and improving a plan

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 16: Probability					
162	160	349–51	349–51b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 119 <i>Probability</i> • 120 <i>Theoretical Probability</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • colored markers: red and blue • colored pencils or crayons: red and blue • calculators (optional) 	<p>Topic: Theoretical Probability</p> <p>Skills: deciding whether a given statement is impossible, unlikely, likely, or certain; finding the theoretical probability of an event</p> <p>BWS: Design</p>
163	161	352–53	352–53b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 121 <i>Sample Spaces</i> • 122 <i>Tree Diagram</i> • 123 <i>Multiplication Counting Principle</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • calculators (optional) 	<p>Topic: Sample Spaces</p> <p>Skills: finding the sample space for and the probability of an event, making a tree diagram, determining the number of possible outcomes using the Multiplication Counting Principle</p>
164	162	354–55	354–55b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 124 <i>Experimental Probability</i> • 125 <i>Spinning Penny Experiment</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • paper clips • calculators (optional) • pennies (optional) 	<p>Topic: Experimental Probability</p> <p>Skills: finding the theoretical probability of an event, conducting a probability experiment, finding the experimental probability of an event</p> <p>BWS: Design</p>
165	163	356–57	356–57b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 126 <i>Fair or Unfair Games</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • 6 marbles: 4 orange, 1 brown, 1 yellow • an opaque bag • two 1–6 number cubes <p>Assessments</p> <ul style="list-style-type: none"> • Chapter 16 Quiz 1 	<p>Topic: Fair or Unfair?</p> <p>Skills: using probability to determine whether a game is fair or unfair, conducting a probability experiment, finding the experimental probability of an event, making predictions using probability</p>
166–67	164	358–59	358–59b	<p>Additional Materials</p> <ul style="list-style-type: none"> • 6 marbles: 4 orange, 1 brown, 1 yellow • an opaque bag • a 1–6 number cube • calculators 	<p>Topic: Independent & Dependent Events</p> <p>Skills: differentiating between independent and dependent compound events, finding the probability of compound events using a formula</p> <p>BWS: Design</p>
168	165	360–61	360–61b	<p>Teacher Resources</p> <ul style="list-style-type: none"> • 127 <i>Probability Spinner</i> <p>Additional Materials</p> <ul style="list-style-type: none"> • paper clips • calculators (optional) 	<p>Topic: Chapter Review</p>
169	166	362–64	362–64		<p>Topic: Test & Cumulative Review</p>

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
Chapter 17: Integers					
170	167	366–67	366–67b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> 	Topic: Integers Skills: identifying integers on a number line, finding the absolute value of a number, comparing and ordering integers
171	168	365, 368–69	365, 368–69b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> • 129 <i>Positive & Negative Number Lines</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Adding Integers Skills: adding integers, solving a word problem BWS: Modeling
172	169	370–71	370–71b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> • 129 <i>Positive & Negative Number Lines</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Subtracting Integers Skills: subtracting integers, solving a word problem BWS: Modeling
173	170	372–73	372–73b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> • 130 <i>Subtraction Patterns</i> • 131 <i>More Subtraction Patterns</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red Assessments <ul style="list-style-type: none"> • Chapter 17 Quiz 1 	Topic: Adding & Subtracting Integers Skills: adding and subtracting integers, solving a word problem
174	171	374–75	374–75b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> 	Topic: More Integers Skills: adding and subtracting integers, solving real-world problems
175	172	376–77	376–77b	Teacher Resources <ul style="list-style-type: none"> • 128 <i>Algebra Mat</i> • 132 <i>Multiplication Patterns</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Multiplying Integers Skills: multiplying integers, solving a word problem
176	173	378–79	378–79b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Multiplying & Dividing Integers Skills: multiplying and dividing integers, solving real-world problems BWS: Modeling

Day	Lesson	Student Edition Pages	Teacher Edition Pages	Teacher Resources & Additional Materials	Topics, Skills & Biblical Worldview Shaping
177	174	380–81	380–81b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> • 133 <i>Order of Operations</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Mixed Review Skills: adding, subtracting, multiplying, and dividing integers; subtracting integers by adding the opposite; solving problems by applying the order of operations
178	175	382–83	382–83b	Teacher Resources <ul style="list-style-type: none"> • 27 <i>Coordinate Plane</i> • 28 <i>Coordinate Planes</i> Assessments <ul style="list-style-type: none"> • Chapter 17 Quiz 2 	Topic: Coordinate Planes Skills: graphing points on a coordinate plane, writing ordered pairs to identify points on a coordinate plane
179	176	384–85	384–85b	Teacher Resources <ul style="list-style-type: none"> • 3 <i>Positive & Negative Number Line</i> • 128 <i>Algebra Mat</i> Additional Materials <ul style="list-style-type: none"> • counters: black and red 	Topic: Chapter Review BWS: Modeling
180	177	386–88	386–88		Topic: Test & Cumulative Review