

Skowhegan Area Middle School Mathematics Grade 8

Textbook used: Glencoe McGraw–Hill Math Connects Course 3 Volume 1 and 2

This textbook is aligned with the Common Core.

All tests are common among the four communities at SAMS.

Start Smart Review:

Teach pages 4–24

Topics covered: Problem Solving, Integers, Proportions, Perimeter and Area

Final Test

Chapter 1 Rational Numbers and Percent

Teach pages 24–48

Topics covered: Rational numbers and all operations on rational numbers and Probability of Independent Events

Test 1A

Teach pages 50–72

Topics covered: Comparing rational numbers, Percent Proportion and Equation, Discount, Mark Up, Sales Tax and Simple Interest

Test 1B

Chapter 2 Real Numbers and Monomials

Teach pages 91–117

Topics covered: Powers and Exponents, Multiplication and Division of Monomials, Powers of Monomials, Negative Exponents, Scientific Notation

Test 2A

Teach pages 124–139 482–492 Topics covered: Square and Cube Roots, Roots of Non–Perfect Squares, Estimating Square Roots, Comparing Real Numbers and The Pythagorean Theorem

Test 2B

Chapter 3 Equations and Inequalities

Teach pages 154–201 Topics covered: Working Backwards, Writing and solving one and two step equations, Graphing inequalities and Solving One and Two step inequalities

Chapter 3 Final Test

Chapter 5 Expressions and Functions

Teach pages 270–297 Topics covered: Variables and Expressions, Ordered Pairs and Relations, Patterns, Analyze Tables and Graphs, Translate Tables and Graphs into Equations

Test 5A

Teach pages 299–311 314–323 Topics covered: Relations and Functions, Functions and Linear Functions, Linear and Non–linear Functions and Graph Quadratic Functions

Test 5B

Chapter 4 Multi-Step Equations and Inequalities

Teach pages 220–235 Topics covered: Properties of
241–253 Mathematics, Simplifying Algebraic
Expressions, Solving Equations with
variables on each side and Solving
Multi-step Equations and Inequalities

Chapter 4 Final Test

Chapter 6 Linear Functions and Systems of Equations

Teach pages 344–349 Topic covered: Slope, Slope Intercept
357–366 form, Graph Functions using Intercepts,
373–381 Solving Systems of Equations by Graphing
and Substitution

Chapter 6 Final Test

Chapter 7 Two and Three Dimensional Geometry

Teach pages 395–405 Topics covered: Angle Measure,
408–414 Classifying Angles, Complementary and
Supplementary Angles, Parallel Lines and
Lines

Test 3A

Teach pages 416–435 Topics covered: Triangles,
440–447 Quadrilaterals, Polygons and
Angles, Three Dimensional
Figures and Properties of
Three-Dimensional figures

Test 3B

Chapter 12 Area and Volume

Teach pages 704–730
Omit pages 710–713

Topics covered: Perimeter and Area, Circumference and Area of Circles, Area of Composite Figures, Volume of Prisms, Cylinders, Pyramids, Cones and Spheres

Test 12A

Teach pages 732–745
Omit page 739

Topics covered: Surface Area of Cylinders, Prisms, Pyramids and Cones

Test 12B

Chapter 8 Triangles and Transformations

Teach pages 464–474
493–528

Topics covered: Similar Polygons, Similar Triangles, Indirect Measurement, Distance on a Coordinate Plane, Slope Triangles, Special Right Triangles, Translations, Reflections, Rotational Symmetry, Rotations, Dilations and Composition of Transformations

Chapter 8 Final Test

Chapter 11 Probability and Combinations

Teach pages 645–649
659–670
671–672
682–689

Topics covered: Count Outcomes, Compound Events, Relative Frequency, Experimental and Theoretical Probability, Geometric Probability, Using Sampling to Predict and Collect Data.

Chapter 11 Final Test