8th Grade Mathematics Syllabus
Trenton Rosenwald Middle School
John Glenn-Hoekstra, instructor
i-Ready Curriculum Associates
2025-2026

CASE Test 1 – September 22-26, 2025
Unit 1 – Geometric Figures: Rigid Transformations and Congruence
      Lesson 1 – Understanding Rigid Transformations and their Properties
      Lesson 2 – Work with Single Rigid Transformations in the Coordinate Plane
      Lesson 3 – Work with Sequences of Transformations and Congruence
Unit 2 – Geometric Figures: Transformations, Similarity, and Angle Relationships
      Lesson 4 – Understanding Dilations and Similarity
      Lesson 5 – Perform and Describe Transformations Involving Dilations
      Lesson 6 – Describe Angle Relationships
      Lesson 7 – Describe Angle Relationships in Triangles
Unit 3 – Linear Relationships: Slope, Linear Equations, and Systems
      Lesson 8 – Graph Proportional Relationships and Define Slope
      Lesson 9 – Derive and Graph Linear Equations of the Form 'y = mx + b'

CASE Test 2 – January 13-23, 2026
      Lesson 10 – Solve Linear Equations in One Variable
      Lesson 10a - Write and Solve Linear Inequalities
      Lesson 11 – Determine the Number of Solutions to One-Variable Equations
      Lesson 12 – Understand Systems of Linear Equations in Two Variables
Unit 4 – Functions: Linear and Non-Linear Relationships
      Lesson 15 – Understand Functions
      Lesson 16 – Use Functions to Model Linear Relationships
      Lesson 17 – Compare Different Representations of Functions
      Lesson 18 – Analyze Graphs of Functional Relationships Qualitatively
Unit 5 – Integer Exponents: Properties and Scientific Notation
      Lesson 19 – Apply Exponent Properties for Positive Integer Exponents
      Lesson 20 – Apply Exponent Properties for All Integer Exponents

CASE Test 3 – March 16-27, 2026
      Lesson 21 – Express Numbers Using Integer Powers of 10
      Lesson 22 – Work with Scientific Notation
Unit 6 – Real Numbers: Rational Numbers, Irrational Numbers, and the Pythagorean Theorem
      Lesson 23 – Find Square Roots and Cube Roots to Solve Problems
      Lesson 24 – Express Rational Numbers as Fractions and Decimals
      Lesson 25 – Find Rational Approximations of Irrational Numbers
      Lesson 26 – Understand the Pythagorean Theorem and Its Converse
      Lesson 27 – Apply the Pythagorean Theorem
      Lesson 28 – Solve Problems with Volumes of Cylinders, Cones, and Spheres
Unit 7 – Statistics: Two-Variable Data and Fitting a Linear Model
      Lesson 29 – Analyze Scatter Plots and Fit a Linear Model to Data
      Lesson 30 – Write and Analyze an Equation for Fitting a Linear Model to Data