

Grade 8

Texas Essential Knowledge and Skills (TEKS) Overview

This document provides an overview of the TEKS coverage in the Texas Math Solution for Grade 8.

| Module | Topic | L# | Lesson Title | Lesson Subtitle | 8.2A | 8.2B | 8.2C |
|---|--|-----------------------|--|---|------|------|------|
| Module 1: Transforming Geometric Objects | Topic 1: Rigid Motion Transformations | 1 | Patty Paper, Patty Paper | Introduction to Congruent Figures | | | |
| | | 2 | Slides, Flips, and Spins | Introduction to Rigid Motions | | | |
| | | 3 | Lateral Moves | Translations of Figures on the Coordinate Plane | | | |
| | | 4 | Mirror, Mirror | Reflections of Figures on the Coordinate Plane | | | |
| | | 5 | Half Turns and Quarter Turns | Rotations of Figures on the Coordinate Plane | | | |
| | | 6 | Every Which Way | Combining Rigid Motions | | | |
| | Topic 2: Similarity | 1 | Pinch-Zoom Geometry | Dilations of Figures | | | |
| | | 2 | Running, Rising, Stepping, Scaling | Dilating Figures on the Coordinate Plane | | | |
| | | 3 | From Here to There | Mapping Similar Figures Using Transformations | | | |
| | Topic 3: Line and Angle Relationships | 1 | Pulling a One-Eighty! | Triangle Sum and Exterior Angle Theorems | | | |
| 2 | | Crisscross Applesauce | Angle Relationships Formed by Lines Intersected by a Transversal | | | | |
| 3 | | The Vanishing Point | The Angle-Angle Similarity Theorem | | | | |
| Module 2: Developing Function Foundations | Topic 1: From Proportions to Linear Relationships | 1 | Post-Secondary Proportions | Representations of Proportional Relationships | | | |
| | | 2 | Jack and Jill Went Up the Hill | Using Similar Triangles to Describe Steepness of a Line | | | |
| | | 3 | Slippery Slopes | Exploring Slopes Using Similar Triangles | | | |
| | | 4 | Up, Down, and All Around | Transformations of Lines | | | |
| | Topic 2: Linear Relationships | 1 | U.S. Shirts | Using Tables, Graphs, and Equations | | | |
| | | 2 | At the Arcade | Linear Relationships in Tables | | | |
| | | 3 | Dining, Dancing, Driving | Linear Relationships in Context | | | |
| | | 4 | Derby Day | Slope-Intercept Form of a Line | | | |
| | Topic 3: Introduction to Functions | 1 | Patterns, Sequences, Rules . . . | Analyzing Sequences as Rules | | | |
| | | 2 | Once Upon a Graph | Analyzing the Characteristics of Graphs of Relationships | | | |
| | | 3 | One or More Xs to One Y | Defining Functional Relationships | | | |
| | | 4 | Over the River and Through the Woods | Describing Functions | | | |
| | | 5 | Comparing Apples to Oranges | Comparing Functions Using Different Representations | | | |
| Module 3: Data Data Everywhere | Topic 1: Patterns in Bivariate Data | 1 | Pass the Squeeze | Analyzing Patterns in Scatter Plots | | | |
| | | 2 | Where Do You Buy Your Books? | Drawing Lines of Best Fit | | | |
| | | 3 | Mia Is Growing Like a Weed | Analyzing Lines of Best Fit | | | |
| | | 4 | The Stroop Test | Comparing Slopes and Intercepts of Data from Experiments | | | |
| | Topic 2: Variability and Sampling | 1 | March MADness | Mean Absolute Deviation | | | |
| | | 2 | Let's Hear From You! | Collecting Random Samples | | | |
| | | 3 | Tiles, Gumballs, and Pumpkins | Using Random Samples to Draw Inferences | | | |
| | | | | | | | |
| Module 4: Modeling Linear Equations | Topic 1: Solving Linear Equations | 1 | Solving Strategically | Equations with Variables on Both Sides | | | |
| | | 2 | DVDs and MP3s | Analyzing and Solving Linear Equations | | | |
| | Topic 2: Systems of Linear Equations | 1 | Crossing Paths | Point of Intersection of Linear Graphs | | | |
| | | 2 | The Road Less Traveled | Systems of Linear Equations | | | |
| | | 3 | Roller Rink Rockin' | Solving Linear Systems | | | |
| | | | | | | | |
| Module 5: Applying Powers | Topic 1: Real Numbers | 1 | So Many Numbers, So Little Time | Sorting Numbers | • | | |
| | | 2 | Rational Decisions | Rational and Irrational Numbers | • | | |
| | | 3 | Establishing Roots | The Real Numbers | • | • | |
| | | 4 | The Big and Small of It | Scientific Notation | | | • |
| | Topic 2: The Pythagorean Theorem | 1 | The Right Triangle Connection | The Pythagorean Theorem | | | |
| | | 2 | Can That Be Right? | The Converse of the Pythagorean Theorem | | | |
| | | 3 | Pythagoras Meets Descartes | Distances in a Coordinate System | | | |
| | | 4 | Catty Corner | Side Lengths in Two and Three Dimensions | | | |
| | Topic 3: Financial Literacy: Your Financial Future | 1 | Terms of Financial Endearment | Simple and Compound Interest | | | |
| | | 2 | On Good Terms | Terms of a Loan | | | |
| | | 3 | Tech Savvy and Responsible | Online Calculators | | | |
| | | 4 | Why All the Fuss Over Post-Secondary Education? | Financing Your Education | | | |
| | Topic 4: Volume of Curved Figures | 1 | Start the Drum Roll! | Volume and Surface Area of a Cylinder | | | |
| | | 2 | Cone of Silence | Volume of a Cone | | | |
| | | 3 | Pulled in All Directions | Volume of a Sphere | | | |
| | | 4 | Pack It Up | Volume and Surface Area Problems with Prisms, Cylinders, Cones, and Spheres | | | |
| End of Course | Formative Assessment | 1 | Wheelchair Ramp | Performance Task | | | |
| | | 2 | Cost of Party | Performance Task | | | |
| | | 3 | Party Planning | Performance Task | | | |

| Grade 8 TEKS Summary by Module and Topic | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Module 1 TEKS Summary | | | | | • | • | • | | | | | | | | | | |
| M1 Topic 1 TEKS Summary | | | | | | | | | | | | | | | | | |
| M1 Topic 2 TEKS Summary | | | | | • | • | • | | | | | | | | | | |
| M1 Topic 3 TEKS Summary | | | | | | | | | | | | | | | | | |
| | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
| Module 2 TEKS Summary | | | | | | | • | • | • | • | • | • | | | • | • | • |
| M2 Topic 1 TEKS Summary | | | | | | | • | • | • | • | • | • | | | • | • | • |
| M2 Topic 2 TEKS Summary | | | | | | | | • | | • | | • | | | | • | • |
| M2 Topic 3 TEKS Summary | | | | | | | | | | • | | • | | | | • | • |
| | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
| Module 3 TEKS Summary | | | | | | | | | | | | | • | • | | | |
| M3 Topic 1 TEKS Summary | | | | | | | | | | | | | • | • | | | |
| M3 Topic 2 TEKS Summary | | | | | | | | | | | | | | | | | |
| | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
| Module 4 TEKS Summary | | | | | | | | | | | | • | | | | | |
| M4 Topic 1 TEKS Summary | | | | | | | | | | | | • | | | | | |
| M4 Topic 2 TEKS Summary | | | | | | | | | | | | | | | | | |
| | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
| Module 5 TEKS Summary | • | • | • | • | | | | | | | | | | | | | |
| M5 Topic 1 TEKS Summary | • | • | • | • | | | | | | | | | | | | | |
| M5 Topic 2 TEKS Summary | | | | | | | | | | | | | | | | | |
| M5 Topic 3 TEKS Summary | | | | | | | | | | | | | | | | | |
| M5 Topic 4 TEKS Summary | | | | | | | | | | | | | | | | | |
| | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
| End of Course: Formative Assessment | | | | | | | | • | • | • | • | • | | | | • | |

| Grade 8 TEKS Summary by Module | 8.2A | 8.2B | 8.2C | 8.2D | 8.3A | 8.3B | 8.3C | 8.4A | 8.4B | 8.4C | 8.5A | 8.5B | 8.5C | 8.5D | 8.5E | 8.5F | 8.5G |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Module 1 TEKS Summary | | | | | • | • | • | | | | | | | | | | |
| Module 2 TEKS Summary | | | | | | | | | | | | | • | • | | | |
| Module 3 TEKS Summary | | | | | | | | | | | | • | | | | | |
| Module 4 TEKS Summary | | | | | | | | | | | | • | | | | | |
| Module 5 TEKS Summary | • | • | • | • | | | | | | | | | | | | | |
| End of Course: Formative Assessment | | | | | | | | • | • | • | • | • | | | | • | |

