

7th Grade Math Syllabus

Course: Grade 7 Mathematics

Duration: August 2025-May 2026

Prerequisites: Mastery of Grade 6 TEKS (fractions, operations, basic proportional reasoning, etc.)

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Course Goals

By the end of the year, students will be able to:

- Fluently perform operations with rational numbers.
- Understand and use proportional relationships in a variety of contexts.
- Model, solve, and analyze linear relationships via tables, graphs, and equations.
- Solve one-variable equations and inequalities, including two-step.
- Apply geometry and measurement concepts: area, volume, geometric shapes.
- Interpret and analyze data, probability, and financial literacy.
- Develop mathematical reasoning, problem solving, and use the language of mathematics.

Key Readiness Standards (TEKS) for Grade 7

These are the readiness standards (those most central, heavily tested, foundational) as defined by TEA/Lead4ward etc.:

Standard	Description
7.6H, 7.6I	Work with proportional relationships (unit rate, ratio)
7.3B, 7.4A, 7.4D, 7.7A, 7.11A	Various: operations with rational numbers; graphing linear relationships; solving inequalities/equations
7.5C, 7.9A, 7.9B, 7.9C	Geometry/volume; geometric problems; circles; etc.
7.6G, 7.12A	Probability / Statistics; Measurement and Data

These readiness standards are what students should really master deeply; other TEKS (“supporting”) reinforce and extend them.

Assessments & Grading

- **Formative Assessments:** Weekly quizzes, classwork, exit tickets.
- **Summative Assessments:** Tests approximately every other week.
- **Benchmark Testing:** Mid-year (December) and pre-STAAR benchmark (February)
- **Homework & Practice:** Daily or near-daily practice for procedural fluency (especially rational numbers, operations).
- **Participation / Classwork:** Group work, class discussion, math talk / reasoning

Grading Policy:

Major: Tests/Quizzes/Writings: **50%**

Minor: Classwork: **40%**

Other: Homework/Participation/Bell Ringers: **10%**

Instructional Strategies & Supports

- Use models and multiple representations (tables, graphs, number lines, visual models).
 - Differentiation: scaffolded tasks for students needing support; extension for those who are ready.
 - Vocabulary instruction: explicit teaching of mathematical terms (ratio, inequality, term, variable, etc.).
 - Use real-life / contextual problems to engage students.
 - Spiraled review of previous standards so retention is high.
 - Use of technology / manipulatives where possible (graphing tools, online practice, visual aids).
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Resources

- TEA TEKS documentation & TEKS Resource System for standards and sample items.
- Lead4ward readiness standard breakdowns (for test blueprints etc.).
- Online practice tools / flashcards (e.g., Mathworks TEKS flashcards). Released STAAR test questions.
- Classroom manipulatives, graphing calculators, interactive software.

Major Course Policies

- Homework turned in on time with late penalties as per school policy.
 - Retake or reassessment policy: Students may retake summative assessments if they complete remediation work.
 - Behavior / participation expectations: Active participation in class, respect, collaborative work.
 - Academic honesty.
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