

7th Grade Honors Math Syllabus

Course: Grade 8 Mathematics

Duration: August 2025-May 2026

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Course Description

8th Grade Math covers essential readiness standards required for success on STAAR and for future courses (like Algebra). Students will build understanding in real numbers, proportionality, linear relationships, geometry, measurement & data, and personal financial literacy along with the mathematical process standards. Instruction will include exploration, explanation, guided practice, independent work, and performance tasks as per TCMPC's TEKS Resource System.

TEKS Readiness Standards (Key Content Areas)

Below are the major readiness TEKS student expectations for Grade 8 that must be emphasized (strong mastery expected). These represent standards that are likely tested and foundational for later math.

Strand / Topic	Readiness Standards (Student Expectation)
Number & Operations / Real Numbers	TEKS 8.2D — Represent, compare, and order real numbers using rational approximations of irrational numbers.

Proportionality, Functions, & Slope	TEKS 8.4B, 8.4C — Use slope-intercept and point-slope forms; interpret slope & rate of change.
Functions	TEKS 8.5G, 8.5I — Identify, represent, and analyze linear functions; use function notation; interpret intercepts and rate of change.
Expressions, Equations & Relationships	TEKS 8.8C — Solve linear equations in one variable including those with variables on both sides; TEKS 8.8? (also inequalities)
Geometry	TEKS 8.3C, 8.7A-C — Work with similarity and dilations; apply the Pythagorean theorem; understand angle relationships (transversals etc.).
Two-Dimensional Figures	TEKS 8.10C — Graph two-dimensional figures in the coordinate plane using given transformations (translations, reflections, rotations, dilations).
Measurement & Data / Personal Financial Literacy	TEKS 8.5D, 8.12D — Solve real-world problems involving proportional relationships, percentages, interest, and financial literacy.

(Note: The list above is not exhaustive of all readiness, but highlights the major ones. TCMPC materials include full lists of readiness & supporting standards.)

Mathematical Process Standards (All Units)

These process standards are woven through all topics:

1. Apply mathematics to problems arising in everyday life, society, and the workplace.
2. Use tools (manipulatives, technology, estimation etc.) appropriately.
3. Justify and explain reasoning using precise mathematical language.
4. Model and connect mathematical representations.

These are included in every unit as per TCMPC/TEKS Resource System expectations.

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).

Grading / Expectations

- Students are expected to show mastery (80–90%) on readiness standards; partial credit / growth allowed for supporting standards.
- Homework, classwork, performance tasks, quizzes/tests all contribute.
- Regular feedback with opportunities to correct misunderstandings.