

6th Grade Mathematics – Course Syllabus 2025–2026

Instructor Information

Teacher: ____Ms.Villarreal_____
Email: ____Victoria.Villarreal@hcisd.org_____
Conference Period: ____9:44-10:42_____
Room: ____115_____

Course Overview

This course is aligned with the Texas Essential Knowledge and Skills (TEKS) for 6th grade mathematics.

Students will develop proficiency in number operations, algebraic reasoning, proportionality, geometry, statistics, and financial literacy. Instruction will emphasize conceptual understanding, problem solving, and application of skills in real-world contexts.

Instructional pacing is organized by modules and topics, aligned to Carnegie Learning, Lead4ward guidance, and the district's internalization calendar.

Instructional Framework

- Whole Group Instruction – Concept introduction and guided practice
- Small Group Instruction – Targeted reteach, enrichment, and data conferences
- Formative Assessments – Checks for understanding, exit tickets, quizzes
- Summative Assessments – Carnegie Learning Assessments, District Benchmarks
- Resources – Carnegie Learning (print/digital), TEKS Snapshot, Lead4ward, Internalization Docs

Grading Policy

- Major Grades (Tests, Carnegie Assessments, Projects): 40%
- Minor Grades (Quizzes, Assignments, Classwork): 40%
- Participation/Notebook/Engagement: 20%

Course Sequence & Pacing

Quarter 1

Module 1: Composing and Decomposing (31 Days)

- Factors & Multiples: distributive property, common factors, common multiples
- Positive Rational Numbers: multiplication/division of fractions, decimals
- Shapes & Solids: triangle construction, triangle sum theorem, area, volume
- Assessments: Carnegie #1, #2; BOY

Quarter 2

Module 2: Applying Proportionality (15 Days)

- Ratios, Percents, Unit Rates, Conversions
- Assessment: Fall Checkpoint

Module 3: Moving Beyond Positive Quantities (25 Days)

- Signed Numbers, Absolute Value, Coordinate Plane
- Integer Operations (add, subtract, multiply, divide)
- Assessment: Carnegie #3

Quarter 3

Module 4: Determining Unknown Quantities (20 Days)

- Expressions, Equations & Inequalities, Graphing Relationships
- Financial Literacy: credit, accounts, loans
- Assessments: MOY, Carnegie #4

Quarter 4

Module 5: Describing Variability of Quantities

- Statistical Process, Histograms, Measures of Center
- Numerical Summaries: box plots, five-number summary
- Assessment: Spring Benchmark

Assessment Schedule

- Carnegie Assessments: #1 (Aug/Sept), #2 (Sept), #3 (Dec), #4 (Jan/Feb)
- District Assessments: BOY (Sept), MOY (Jan), Spring Benchmark (Mar)

- Checkpoints & Data Chats: Embedded in Small Group Days

TEKS Alignment Table

Module/Topic	Focus	Aligned TEKS
Module 1: Composing & Decomposing	Factors, multiples, fractions, decimals, geometry	6.2A–6.2E, 6.3A–6.3E, 6.4A–6.4F, 6.8A–6.8C, 6.8D–6.8E
Module 2: Applying Proportionality	Ratios, percents, unit rates, conversions	6.4E–6.4J, 6.5A–6.5C, 6.5D, 6.5E
Module 3: Beyond Positive Quantities	Negative numbers, coordinate plane, integer operations	6.2B–6.2E, 6.3D, 6.11A–6.11C
Module 4: Determining Unknown Quantities	Expressions, equations, inequalities, graphing, financial literacy	6.6A–6.6C, 6.7A–6.7D, 6.9A–6.9C, 6.14A–6.14C
Module 5: Describing Variability	Data analysis, histograms, box plots, statistical measures	6.12A–6.12C, 6.13A–6.13C

Professional Notes

- Small Group Days provide intervention, extension, and assessment reflection.
- Content Support Days support reteach before assessments.
- Alignment: Curriculum is fully aligned to TEKS, Carnegie Learning, and STAAR readiness standards.