

7th Grade Accelerated Math Syllabus

Texas Bluebonnet Learning – 2025–2026

Teacher: Mrs. Lange

Email: alange@nordheim.isd.org

Course Description

This course uses the Texas Bluebonnet Learning Secondary Mathematics curriculum to teach all 7th-grade and 8th-grade TEKS in one year. Students in this accelerated track will be prepared to take Algebra I in 8th grade. We will focus on: deepening conceptual understanding of advanced middle school math, strengthening fluency with multi-step operations, applying math to real-world and algebraic situations, developing reasoning and problem-solving skills at a high level.

Materials

- Math notebook
- Pencils & erasers
- Calculator (as approved for certain units)

Goals: By the end of this year, you will:

1. Master all 7th- and 8th-grade math TEKS.
2. Confidently solve problems involving algebraic reasoning.
3. Apply math concepts to real-world and STEM-related problems.
4. Be fully prepared for Algebra I.

Grading

- Daily Grades (Daily Work / Homework / Participation) – **60%**
- Exam Grades (Tests / Projects / Quizzes) – **40%**

Daily Structure

1. Warm-Up
2. Lesson Introduction
3. Guided Practice
4. Independent Practice
5. Exit Ticket
6. Homework

Policies

- **Late Work:** 10 points deducted each day. Not accepted after 4 days.
- **Make-Up Work:** The student is responsible for coming in during Pirate Period to receive any missed work/instruction.
- **Extra Help:** Tutoring available by appointment after school or any day during Pirate Period.

This will be a challenging year, but if you keep up, ask questions, and practice consistently, you will be more than ready for Algebra I next year!

Semester & Weekly Pacing

Semester 1 – Scope & Sequence

Weeks	Topic	Topic Details
Module 1: Transforming Geometric Objects		
1–4	Rigid Motion Transformations	Introduction to congruent figures and rigid motions. Translations, reflections, and rotations on the coordinate plane.
4–5	Similarity	Scale and scale drawings, and dilations and mapping figures on the coordinate plane.
6–7	Line and Angle Relationships	Exploring angles and angle theorems.
Module 2: Developing Function Foundations		
7–8	Proportional Relationships	Solving percent problems, calculating tips, commissions, and simple interest, sales tax, income tax, and percent increase and decrease.
9–11	From Proportions to Linear Relationships	Exploring multiple representations of proportional relationships, constant of proportionality, and linear relationships.
Module 3: Modeling Linear Equations & Inequalities		
11–14	Solving Linear Equations & Inequalities	Analyzing and solving equations and inequalities with tables and graphs.
Module 4: Applying Powers		
14–15	Real Numbers	Sorting rational and irrational numbers. Scientific notation,
16–17	The Pythagorean Theorem	Introduction to the Pythagorean theorem, distances in the coordinate system, and 2D & 3D side lengths.
17–18	Circles and Composite Figures	Exploring circumference, diameter, area, and composite figures.

Semester 2 – Scope & Sequence

Weeks	Topic	Topic Details
Module 4: Applying Powers (continued)		
19-21	Surface Area & Volume	Finding surface area and volume of prisms, pyramids, cylinders cones, and spheres.
Module 5: Analyzing Populations, Probabilities, and Potential		
22-23	Introduction to Probability	Defining and representing probability and probability models. Determining experimental probability of and simulating simple events.
23-25	Compound Probability	Organizing outcomes using arrays and tree diagrams, and determining and simulating compound probability events.
25-26	Drawing Inferences	Exploring mean absolute deviation and collecting and using random samples, sample populations, and samples from two populations to draw inferences and conclusions.
27-28	Financial Literacy	Exploring simple/compound interest, loans, online calculators, education finances, and personal budgets.
End of Year Review		
29-33	STAAR REVIEW	Quick review of all topics covered throughout the year until STAAR testing is over.
34-37	Introduction to Algebra 1	Intro to Algebra 1 standards and materials.