

# Accelerated Course Pathway Overview

A Pathway for Grade 6 and Grade 7 Students to Algebra I in Grade 8

## Intent of the Accelerated Course Pathway

Carnegie Learning's Texas Math Solution includes two Accelerated courses for grade 6 students and grade 7 students. This Accelerated course pathway is designed to prepare students to be ready for and successful in a high school level Algebra 1 course during their 8th grade year.

**Carnegie Learning Accelerated Grade 6** course includes all of grade 6 math TEKS and a portion of the grade 7 math TEKS (specifically the proportionality TEKS) within the Learning Together component (Textbook or Interactive Math Lessons) and the Learning Individually component (MATHia).

**Carnegie Learning Accelerated Grade 7** course includes all of the grade 8 math TEKS and the remaining grade 7 math TEKS within the Learning Together component (Textbook or Interactive Math Lessons) and the Learning Individually component (MATHia).

<b>Carnegie Learning Accelerated 6 Course Overview</b>	<b>Carnegie Learning Accelerated 7 Course Overview</b>
<p><b>6A Module 1: Composing and Decomposing</b></p> <ul style="list-style-type: none"><li>• Topic 1: Factors and Multiples (6th)</li><li>• Topic 2: Positive Rational Numbers (6th)</li><li>• Topic 3: Angles and Shapes (6th)</li><li>• Topic 4: Decimals and Volume (6th/7th)</li></ul> <p><b>6A Module 2: Relating Quantities</b></p> <ul style="list-style-type: none"><li>• Topic 1: Ratios (6th)</li><li>• Topic 2: Percents (6th)</li><li>• Topic 3: Unit Rates and Conversions (6th/7th)</li></ul> <p><b>6A Module 3: Moving Beyond Positive Quantities</b></p> <ul style="list-style-type: none"><li>• Topic 1: Signed Numbers and the Four Quadrants (6th)</li><li>• Topic 2: Operating with Integers (6th)</li><li>• Topic 3: Operating with Rational Numbers (7th)</li></ul> <p><b>6A Module 4: Determining Unknown Quantities</b></p> <ul style="list-style-type: none"><li>• Topic 1: Expressions (6th)</li><li>• Topic 2: Algebraic Expressions (7th)</li><li>• Topic 3: Equations (6th)</li><li>• Topic 4: Graphing Quantitative Relationships (6th)</li><li>• Topic 5: Financial Literacy Accounts, Credit, and Careers (6th)</li></ul>	<p><b>7A Module 1: Transforming Geometric Objects</b></p> <ul style="list-style-type: none"><li>• Topic 1: Rigid Motion Transformations (8th)</li><li>• Topic 2: Similarity (8th)</li><li>• Topic 3: Line and Angle Relationships (7th/8th)</li></ul> <p><b>7A Module 2: Developing Function Foundations</b></p> <ul style="list-style-type: none"><li>• Topic 1: From Proportions to Linear Relationships (8th)</li><li>• Topic 2: Two-Step Equations and Inequalities (7th)</li><li>• Topic 3: Multiple Representations of Linear Equations (7th)</li><li>• Topic 4: Linear Relationships (8th)</li><li>• Topic 5: Introduction to Functions (8th)</li></ul> <p><b>7A Module 3: Modeling Linear Equations</b></p> <ul style="list-style-type: none"><li>• Topic 1: Patterns in Bivariate Data (8th)</li><li>• Topic 2: Solving Linear Equations (8th)</li><li>• Topic 3: Systems of Linear Equations (8th)</li></ul> <p><b>7A Module 4: Applying Powers</b></p> <ul style="list-style-type: none"><li>• Topic 1: The Real Number System (8th)</li><li>• Topic 2: The Pythagorean Theorem (8th)</li><li>• Topic 3: Three-Dimensional Figures (7th)</li></ul>

### 6A Module 5: Thinking Proportionally

- Topic 1: Circles and Ratio (7th)
- Topic 2: Fractional Rates (7th)
- Topic 3: Proportionality (7th)
- Topic 4: Proportional Relationships (7th)
- Topic 5: Financial Literacy: Interest and Budgets (7th)

### 6A Module 6: Describing Variability of Quantities

- Topic 1: The Statistical Process (6th)
- Topic 2: Numerical Summaries of Data (6th)

- Topic 4: Volume of Curved Figures (8th)

### 7A Module 5: Analyzing Populations, Probabilities, and Potential

- Topic 1: Introduction to Probability (7th)
- Topic 2: Compound Probability (7th)
- Topic 3: Drawing Inferences (7th)
- Topic 4: Financial Literacy: Your Financial Future (8th)

## Year 1 Implementation Recommendations for Grade 7 Accelerated Students

In the first year of adopting Carnegie Learning's Texas Math Solution, districts who are looking to roster students into the Accelerated Grade 7 course should make note of the following considerations.

If incoming grade 7 students completed an accelerated or advanced course in their 6th grade year that **only** included the 6th grade math TEKS, then:

- Students should use the CL Accelerated Grade 7 Learning Together Component (Textbook or Interactive Lessons).
- In addition, students should also use the **Accelerated Grade 7 with Readiness** customized sequence for the Learning Individually Component (MATHia). This sequence embeds MATHia units that align with the grade 7 math TEKS from the Carnegie Learning Accelerated grade 6 course. These units are strategically embedded within the MATHia modules to scaffold grade 7 math TEKS to the grade 8 math TEKS and, therefore, provide students with additional content to ensure their success in the CL Accelerated Grade 7 course.

If incoming grade 7 students completed an accelerated or advanced course in their 6th grade year that included the grade 6 math TEKS **and** a selection of grade 7 math TEKS that differ from the grade 7 math TEKS in the Carnegie Learning Accelerated Grade 6 course, then:

- Students should use the CL Accelerated Grade 7 Learning Together component (Textbook or Interactive Lessons).
- In addition, for the Learning Individually component (MATHia), the district or campus should customize the MATHia content to address the grade 7 math TEKS not previously taught. Carnegie Learning recommends the use of the Accelerated Grade 7 MATHia sequence to align with the Learning Together Component, however, any district or campus can create an additional custom MATHia module(s) with units that align to the specific grade 7 math TEKS that their previous accelerated grade 6 course(s) did not include (compare to Carnegie Learning's Accelerated Grade 6 course). This additional module can be added for all students or a select group of students to access as needed.