Mathematics
Grade 6 Math Public Overview

1st 9 Weeks
Assessments MAP Growth Math: September 2, 2026 – September 3, 2026
What are we learning? **How can I help at home?**

Module 1: Composing and Decomposing

In this module, students learn how to break apart and put together numbers and shapes to better understand how math works. They will explore factors and multiples, work with shapes to find area and volume, and build skills with decimals. Students use models and real-world problems to make sense of math and explain their thinking.

Essential Question:
How can breaking apart and putting together numbers and shapes help us solve problems and understand math more deeply?

Timeline: August 11 – September 22
Essential Standards: 6.2D, 6.3E, 6.7A, 6.7D, 6.8D
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Explore the relationship between numbers and area using models and properties.
- Compose and decompose shapes to understand area, volume, and geometric relationships.
- Use number lines and standard algorithms to compare and operate with decimals.

At-Home Connection:

- **Adjust recipes together:** Have students adjust a recipe (double or halve it) to practice multiplying and dividing fractions and decimals and discussing why amounts change the way they do.
- **Plan Home or Yard Projects together:** Measure spaces (like a room, garden, or tabletop) and calculate area or estimate materials needed, helping students apply area, volume, and decomposition of shapes.
- **Discuss Shopping & Money:** Compare prices, calculating totals, and estimate costs using decimals to build fluency with decimal operations and real-world reasoning.

Module 2: Relating Quantities (*Continues in 2nd 9 weeks*)

In this module, students learn how to compare and connect numbers in meaningful ways. They explore how quantities relate using ratios, rates, and percents, which helps them understand real-world situations like pricing, speed, and conversions.

Essential Question:

How can we use ratios, rates, and percents to describe relationships between quantities and solve real-world problems?

Timeline: September 23 – November 18
Essential Standards: 6.2D, 6.3E, 6.4B, 6.4G, 6.4H, 6.5B, 6.6C
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Build on their multiplicative reasoning to establish ratio reasoning.
- Analyze percents as a special type of ratio, a rate per 100.
- Develop an understanding of unit rates, a special type of ratio, and conversion rates, a special type of unit rate.

At-Home Connection:

- **Compare prices while shopping:** Ask your child to help find the best deal by comparing prices (like cost per item or per ounce).
- **Adjust recipes together:** Have your child double or halve a recipe to practice using ratios and scaling ingredients.
- **Talk about percents in daily life:** Involve your child in calculating discounts, tips, or sales tax to connect math to real-world situations.

2nd 9 Weeks
Assessments N/A
What are we learning? **How can I help at home?**
Module 2: Relating Quantities *(Continued)* *See 1st 9 weeks for details*
Module 3: Moving Beyond Positive Quantities *(Continues in 3rd 9 weeks)* In this module, students expand their understanding of numbers to include negative numbers and how they relate to positive numbers. They learn how to represent, compare, and use both positive and negative numbers in real-life situations like money, temperature, and elevation. **Essential Question:** How can you use positive and negative numbers to represent and solve real-world problems?

Timeline: November 19 – January 25
Essential Standards: 6.2D, 6.3D, 6.11A
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Use a number line to reason about negative numbers and absolute value
- Make conjectures, explain connections between representations and algorithms, generalize, and practice algorithms related to addition, subtraction, multiplication, and division of integers.

At-Home Connection:

- **Track temperatures together:** Look at daily weather and have your child compare temperatures above and below zero, discussing which is warmer or colder and why.
- **Connect math to money:** Talk about bank accounts, earning money, or owing money. Ask your child to explain gains (positives) and losses (negatives) and compare amounts.
- **Explore elevation or movement:** When traveling, discuss changes like going up and down stairs, elevators, or hills, and have your child describe these changes using positive and negative numbers.

3rd 9 Weeks

Assessments

MAP Growth Math: January 20, 2027 – January 21, 2026

Module 3: Moving Beyond Positive Quantities *(Continued)*

See 2nd 9 weeks for details

Module 4: Determining Unknown Quantities *(Continues in 4th 9 weeks)*

In this module, students begin to explore the early ideas of algebra by thinking about how math can be used to represent and make sense of unknown values. They work with expressions, equations, and graphs to see how quantities are connected and how those relationships can be described in different ways. As they move through the module, students apply this understanding to real-life contexts, including situations involving money and decision-making. By the end, students develop a stronger understanding of how math can be used to analyze situations, recognize patterns, and make sense of problems they may encounter in everyday life.

Essential Question:

How can we use math to represent relationships and determine unknown values in real-world situations?

Timeline: January 26 – April 14
Essential Standards: 6.3D, 6.6C, 6.7A, 6.7D, 6.8D, 6.10A, 6.11A
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Generate and interpret expressions to represent real-world situations and determine if expressions are equivalent.
- Solve equations and inequalities and understand what solutions mean in different contexts.
- Analyze relationships between quantities and use graphs to represent and find unknown values.
- Connect math to real life by exploring financial concepts like bank accounts, credit, and career decision-making.

At-Home Connection:

- **Compare prices while shopping:** Have your child write and solve simple expressions to calculate total costs or compare deals when buying multiple items.
- **Track and analyze real-life data:** Use situations like distance traveled over time or temperature changes to create simple graphs and discuss what they show.
- **Discuss money decisions:** Talk through everyday financial choices, such as saving, spending, or using a debit/credit card, and have your child explain the pros and cons.

4th 9 Weeks

Assessments

STAAR (April 26 – April 28)

MAP Growth Math: May 5, 2027 – May 6, 2027

What are we learning?
How can I help at home?

Module 4: Determining Unknown Quantities *(Continued)*

See 3rd 9 weeks for details

Module 5: Describing Variability of Quantities

In this module, students are introduced to statistics and how data can be used to answer questions about the world around them. They begin by learning how to ask meaningful questions, collect information, and display it in ways that make sense. Students explore different types of graphs and data displays to look for patterns and trends. As they continue, students learn how to describe data using numbers such as averages and ranges. They also examine how data can vary and what that variation means in real-life situations. By the end of the module, students use both graphs and numerical summaries to compare information, draw conclusions, and make informed decisions based on data.

Essential Question:

How can we collect, represent, and analyze data to better understand patterns and make informed decisions?

Timeline: April 15 – May 27
Essential Standards: 6.12C, 6.12D, 6.13A
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Explore how to ask statistical questions, collect data, and interpret results
- Use real-world data to create and analyze graphs such as dot plots, stem-and-leaf plots, and histograms to understand patterns and trends.
- Describe data using measures like mean, median, mode, and range and determine which measure best represents a data set.
- Create and use box plots and other graphs to compare data and understand how values are spread out.
- Analyze categorical data using bar graphs, including percent bar graphs, to make comparisons and draw conclusions.

At-Home Connection:

Compare family data: Have your child collect data at home (such as hours of sleep or screen time), create a graph, and describe any patterns or differences.

Analyze shopping choices: While shopping, ask your child to compare prices or quantities (such as different brands or sizes) and explain which option provides better value using data.

Track real-life trends: Have your child track something over several days (like temperature or steps walked), organize the data in a chart or graph, and explain what they notice about how it changes.