Mathematics
Grade 6 AAC 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?

Grade 6 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 9
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.

Grade 6 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 10 – October 30
Essential Standards: 6.2D, 6.3E, 6.4B, 6.4G, 6.4H, 6.5B, 6.6C
Link to TEKS/Parent Guide:

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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?

Grade 6 Module 2: Relating Quantities *(Continued)*

See 1st 9 weeks for details

Grade 6 Module 3: Moving Beyond Positive Quantities

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 2 – December 2
Essential Standards: 6.2D, 6.3D, 6.11A
Link to TEKS/Parent Guide:

- Texas Essential Knowledge and Skills for Mathematic Grade 6
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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.

Grade 7 Module 3 Part A: Reasoning Algebraically

In Part A of *Reasoning Algebraically*, Students build confidence working with fractions, decimals, and whole numbers. They learn how to add, subtract, multiply, and divide these types of numbers to solve everyday math problems.

Essential Question:

When would I use operations with fractions, decimals, or negative numbers to solve problems in everyday life?

Timeline: December 3 – December 9
Essential Standards: 7.3B, 7.4D
Link to TEKS/Parent Guide:

- **Texas Essential Knowledge and Skills for Mathematic Grade 7**
- Topic Family Guides aligned to the module are available through your students' digital access and can be found in Student Topic Resources.

Content: Students …

- Add. Subtract, multiply and divide rational numbers.
- Solve real-world problems involving addition, subtraction, multiplication and division with rational numbers.
- Evaluate expressions for a given value, including expressions involving the distributive property.

At-Home Connection:

- **Analyze finances at home:** Have students track money earned or spent (allowance, purchases) using positive and negative numbers and calculate totals.

Grade 6 Module 4: Determining Unknown Quantities *(Continues in 3rd 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: December 10 – February 19
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
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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.

3rd 9 Weeks

Assessments

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

Grade 6 Module 4: Determining Unknown Quantities *(Continued)*

See 2nd 9 weeks for details

Grade 7 Module 1: Thinking Proportionally *(Continues in 4th 9 Weeks)*

In *Thinking Proportionally*, students learn how to understand and use relationships between numbers through ratios, rates, and proportions. Instead of just memorizing formulas, students focus on making sense of how quantities relate to one another by comparing values, identifying patterns, and reasoning about how one quantity changes in relation to another. They solve real-world problems, use multiple representations like tables and graphs, and explain their thinking to build a deeper understanding of mathematical relationships.

Essential Question:

How can we use ratios, rates, and proportional relationships to understand and solve real-world problems?

Timeline: February 22 – March 24
Essential Standards: 7.4A, 7.4D, 7.9B, 7.9C
Link to TEKS/Parent Guide:

- **Texas Essential Knowledge and Skills for Mathematic Grade 7**
- 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 circles, discover the meaning of π (pi), and learn formulas for circumference and area.
- Work with unit rates (like cost per item or miles per hour), including situations with fractions, and solve real-world problems using proportions.
- Learn how to recognize and represent proportional relationships using tables, graphs, and equations, and understand how one quantity changes in relation to another.

At-Home Connection:

- **Measure and Compare Circles at Home:** Have your child measure the diameter and circumference of round objects (plates, lids, wheels) to see how they relate and estimate π.
- **Find the Best Buy While Shopping:** When grocery shopping, ask your child to compare prices using unit rates (cost per ounce or item) to determine which option is the best value.
- **Connect Rates to Everyday Activities:** Track something like distance walked over time or money earned for chores, and have your child calculate and explain the rate (e.g., miles per hour or dollars per hour).

4th 9 Weeks

Assessments

STAAR (April 26 – April 28)
MAP Growth Math: May 5, 2027 – May 6 2027

Grade 7 Module 1: Thinking Proportionally *(Continued)*

See 3rd 9 weeks for details

Grade 7 Module 2: Applying Proportionality

In *Applying Proportionality*, students learn how to use ratios, rates, and percents to solve real-world problems such as discounts, taxes, tips, and budgeting, while also exploring percent change, scale drawings, and interest. By the end of the module, students connect math to everyday situations and use tables, graphs, and equations to represent relationships and make informed decisions.

Essential Question:

How can proportional reasoning help us solve real-world problems involving money, measurements, and relationships?

Timeline: March 25 – April 14
Essential Standards: 7.4D, 7.5C
Link to TEKS/Parent Guide:

- **Texas Essential Knowledge and Skills for Mathematic Grade 7**
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Content: Students …

- Solve percent problems using proportions, percent equations, and the constant of proportionality.
- Apply percent increase and decrease to real-world situations, including money and measurements.
- Use proportional reasoning to solve problems involving scale drawings and similar figures.
- Calculate and compare financial situations such as tips, commissions, taxes, and simple vs. compound interest.
- Analyze financial literacy concepts by creating budgets, interpreting circle graphs, and determining net worth using assets and liabilities.

At-Home Connection:

- **Compare prices while shopping:** Have your child calculate discounts, coupons, or tax to decide which deal is better.
- **Plan a simple budget:** Work together to divide a monthly amount into categories (food, savings, entertainment) and discuss spending choices.
- **Calculate tips or interest:** When dining out or saving money, have your child estimate tips or interest earned to connect math to real-life decisions.

Grade 6 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 7
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.

Grade 7 Module 3 Part B: Reasoning Algebraically

In *Reasoning Algebraically*, students explore how expressions, equations, and inequalities can describe real-world situations and practice solving them using logical steps and reasoning. Throughout the module, students connect different ways of showing math—such as graphs, tables, and equations—to better understand relationships and explain their thinking. By the end, students can model real-life situations, solve multi-step problems, and justify their solutions clearly.

Essential Question:
How can we use equations and multiple representations to model and solve real-world problems?

Timeline: May 10 – May 27
Essential Standards: 7.4A, 7.7A, 7.11A
Link to TEKS/Parent Guide:

- **Texas Essential Knowledge and Skills for Mathematic Grade 7**
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Content: Students …

- Model and solve two-step equations and inequalities using tools such as bar models, algebra tiles, and number lines
- Write equations and inequalities to represent real-world situations and explain solutions
- Analyze relationships between variables using tables, graphs, equations, and verbal descriptions
- Connect multiple representations (tables, graphs, equations) to understand and solve problems

At-Home Connection:

- **Solve everyday problems with equations:** Ask students to write and solve equations for situations like splitting costs, saving money over time, or comparing prices.
- **Use graphs and tables in real life:** Have students track something over time (temperature, screen time, or distance walked) and represent it with a table or graph to analyze trends.