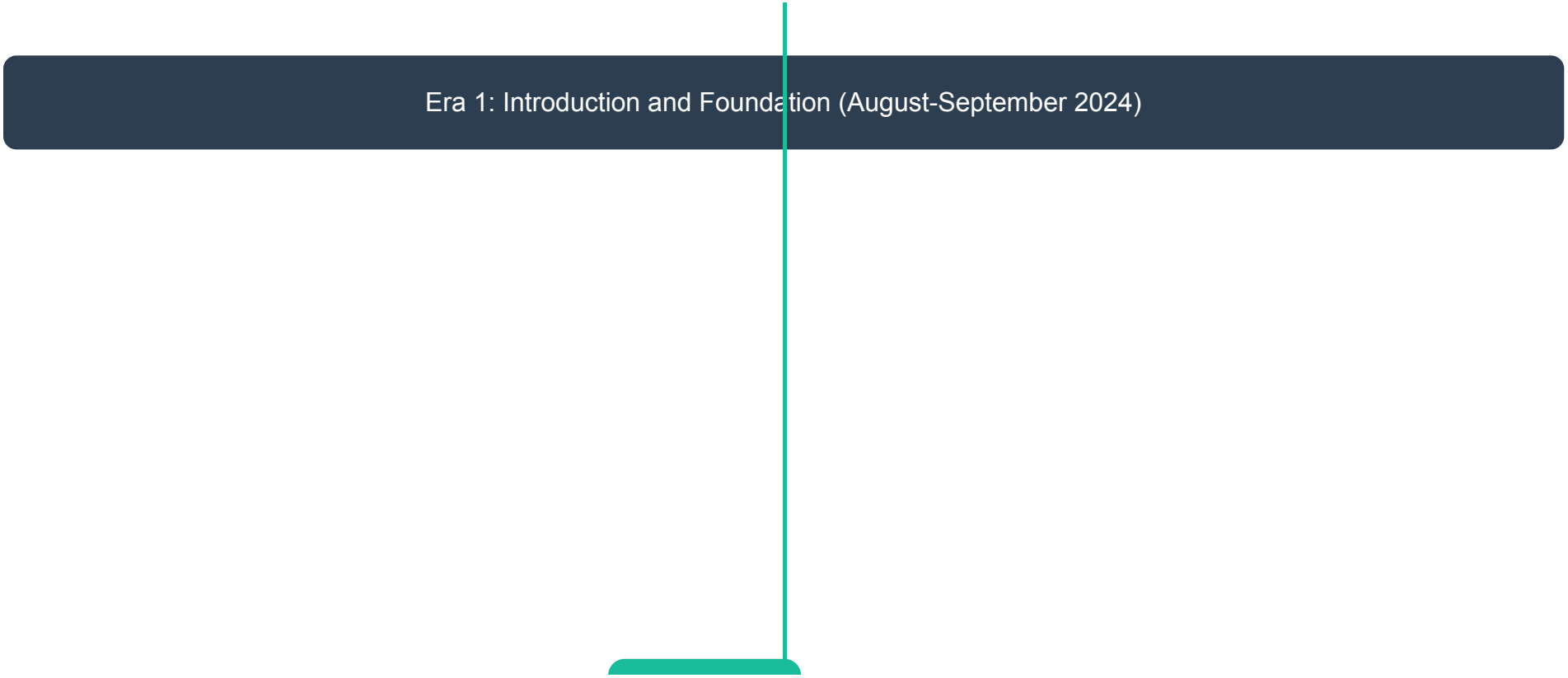
6th Grade Honors Math Pacing Guide

A Comprehensive Guide to Math Excellence



August 2024

Introduction to 6th Grade Honors Math

Introduction to the 2025 South Carolina math standards and the pacing guide.

Impact: Sets the tone for the year and introduces students to the expectations and requirements of the course.

Connected to: Ratios and Proportional Relationships

September 2024

Ratios and Proportional Relationships

Introduction to ratios, equivalent ratios, and unit rates.

Impact: Develops students' understanding of ratios and proportional relationships.

Connected to: The Number System

Era 2: Development and Application (October-December 2024)

October 2024

The Number System

Introduction to adding, subtracting, multiplying, and dividing rational numbers.

Impact: Develops students' understanding of the number system and operations with rational numbers.

Connected to: Expressions and Equations

November 2024

Expressions and Equations

Introduction to algebraic expressions and equations.

Impact: Develops students' understanding of expressions and equations and prepares them for advanced math topics.

Connected to: Geometry and Statistics and Probability

December 2024

Geometry and Statistics and Probability

Introduction to geometry, points, lines, and angles, and statistical analysis.

Impact: Develops students' understanding of geometry and statistical analysis and prepares them for advanced math topics.

Connected to: Mid-Year Review and Assessment

Era 3: Review and Assessment (January-May 2025)

January 2025

Mid-Year Review and Assessment

Review of key concepts and assessment of student progress.

Impact: Identifies areas where students need additional support and informs instruction for the second half of the year.

Connected to: Continued Instruction and Assessment

February 2025

Continued Instruction and Assessment

Continued instruction and assessment of key concepts.

Impact: Develops students' understanding of key concepts and prepares them for the end-of-year assessment.

Connected to: Review and Preparation for End-of-Year Assessment

March 2025

Review and Preparation for End-of-Year Assessment

Review of key concepts and preparation for the end-of-year assessment.

Impact: Prepares students for the end-of-year assessment and identifies areas where students need additional support.

Connected to: End-of-Year Assessment

April 2025

End-of-Year Assessment

Administration of the end-of-year assessment.

Impact: Evaluates student understanding of key concepts and informs instruction for future years.

Connected to: Review and Reflection

May 2025

Review and Reflection

Review of the year and reflection on student progress.

Impact: Informs instruction for future years and identifies areas for improvement.

Learning Objectives and Success Criteria

The primary learning objectives for 6th grade math honors students in South Carolina are:

- **Ratios and Proportional Relationships**: Students will be able to understand and apply ratios and proportional relationships to solve problems.
- **The Number System**: Students will be able to apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- **Expressions and Equations**: Students will be able to apply and extend previous understandings of arithmetic to algebraic expressions and equations.
- **Geometry**: Students will be able to apply and extend previous understandings of geometry to solve problems involving points, lines, and angles.
- **Statistics and Probability**: Students will be able to apply and extend previous understandings of statistical analysis to solve problems.

Pacing Guide Overview

The pacing guide for 6th grade math honors is divided into four quarters, each covering specific topics and learning objectives.

Quarter 1: Ratios and Proportional Relationships (Weeks 1-6)

- **Weeks 1-2**: Introduction to Ratios
- **Weeks 3-4**: Equivalent Ratios
- **Weeks 5-6**: Unit Rates

Quarter 2: The Number System (Weeks 7-12)

- **Weeks 7-8**: Adding and Subtracting Rational Numbers
- **Weeks 9-10**: Multiplying and Dividing Rational Numbers
- **Weeks 11-12**: Real-World Applications

Quarter 3: Expressions and Equations (Weeks 13-18)

- **Weeks 13-14**: Introduction to Algebraic Expressions
- **Weeks 15-16**: Simplifying Algebraic Expressions
- **Weeks 17-18**: Solving Linear Equations

Quarter 4: Geometry and Statistics and Probability (Weeks 19-24)

- **Weeks 19-20**: Introduction to Geometry
- **Weeks 21-22**: Points, Lines, and Angles
- **Weeks 23-24**: Statistical Analysis

Differentiation Strategies

To cater to the diverse needs of honors students, the following differentiation strategies can be implemented:

- **Learning Centers**: Provide learning centers that offer different levels of complexity and challenge to cater to various learning styles.
- **Tiered Assignments**: Offer tiered assignments that provide different levels of complexity and challenge to cater to various learning styles.
- **Technology Integration**: Integrate technology to provide interactive and engaging learning experiences that cater to various learning styles.
- **Collaborative Learning**: Encourage collaborative learning to promote peer-to-peer support and cater to various learning styles.

Assessment Opportunities

Assessment opportunities are embedded throughout the pacing guide to monitor student progress and understanding.

- **Quizzes**: Regular quizzes to assess student understanding of key concepts.
- **Worksheets**: Worksheets to assess student application of key concepts.
- **Group Activities**: Group activities to assess student collaboration and communication skills.
- **Projects**: Projects to assess student critical thinking and problem-solving skills.
- **Presentations**: Presentations to assess student communication and presentation skills.