MASTERY VIEW
Predictive Assessments

South Carolina
7th Grade Math
2025-2026 Pacing Guide

Note: The South Carolina College- and Career-Ready (SCCCR) Mathematical Process Standards describe the varieties of expertise that mathematics educators should seek to develop in their students. While they are not specifically stated in this pacing guide, students should be developing these skills throughout the school year.

Unit	Standards	Major Topics/Concepts
Rational Numbers	7.PAFR.3.5 7.NR.2.1	Apply all operations with rational numbers to solve problems in mathematical and real-world situations. Compare two rational numbers and write statements using *is equal to (=), is not equal to* (≠), *is less than* (<), *is greater than* (>), *is greater than or equal to* (≥), and/or *is less than or equal to* (≤) in mathematical and real-world situations.
Expressions and Equations	7.PAFR.2.1 7.PAFR.2.2 7.PAFR.3.1 7.PAFR.3.2 7.PAFR.3.3 7.PAFR.3.4	Write and solve multi-step equations and inequalities in one variable involving rational numbers in mathematical and real-world situations. Write and evaluate expressions in one variable that model mathematical and real-world situations. Simplify numerical expressions that include integer exponents using the laws of exponents: the Product of Powers, Quotient of Powers, Power of a Power, Power of a Product, Power of a Quotient, Zero Power, and Negative Exponent. Identify linear expressions that are equivalent. Recognize that algebraic expressions may have a variety of equivalent forms and determine an appropriate form for a given real-world situation. Factor linear expressions with integer coefficients using the greatest common factor (GCF).
1st Cumulative Assessment (covering all content to this point)		
Ratios and Proportions	7.PAFR.1.1 7.PAFR.1.2 7.PAFR.1.3 7.PAFR.2.3 7.PAFR.2.4 7.NR.1.1	Apply proportional reasoning to solve problems in mathematical and real-world situations involving ratios and percentages. Create a model with functions that address a proportional relationship in real-world situations. Identify the constant of proportionality within proportional relationships. Compute unit rates, including those involving complex fractions with like or different units. Use dimensional analysis to convert units between metric and customary systems. Convert rational numbers into equivalent forms among fractions (including

Unit	Standards	Major Topics/Concepts
		mixed numbers), decimals, and percentages. Exclude the conversion of repeating decimals to fractions.
Geometry	7.MGSR.1.4 7.MGSR.2.1 7.MGSR.2.2	Determine if three given side lengths can form a triangle using the *Triangle Inequality Theorem*. Determine the measure of the third angle given the measure of the other two angles of a triangle using the *Triangle Sum Theorem*. Solve mathematical and real-world situations involving dimensions and areas of geometric figures including scale drawings and scale factors.
2nd Cumulative Assessment (covering all content to this point)		
Algebraic Geometry	7.MGSR.1.1 7.MGSR.1.2 7.MGSR.1.3 7.MGSR.1.5 7.MGSR.1.6 7.MGSR.2.3 7.MGSR.2.4 7.MGSR.3.1	Identify the parts of a circle. Limit the parts to *center*, *radius*, *diameter*, and *chord*. Describe the relationship between the *radius*, *diameter*, and *circumference* of a circle. Solve mathematical and real-world situations involving circumference or area of circles. In mathematical and real-world situations, find the volume of right prisms and right pyramids having triangular or quadrilateral bases. In mathematical and real-world situations, find the surface area of right prisms and right pyramids having triangular or quadrilateral bases. Identify the relationships and measures among angles formed by two intersecting lines, given the measure of one angle. Relationships are limited to supplementary, complementary, vertical, and adjacent. Write and solve equations to solve mathematical and real-world situations involving the relationships among angles formed by two intersecting lines. Relationships are limited to supplementary, complementary, vertical, and adjacent. Find distances between ordered pairs on the coordinate plane, limited to the same *x*-coordinate or the same *y*-coordinate.
Statistics and Probability	7.DPSR.1.1 7.DPSR.1.2 7.DPSR.1.3 7.DPSR.1.4 7.DPSR.2.1 7.DPSR.2.2 7.DPSR.2.3 7.DPSR.2.4	Create stem-and-leaf plots to represent numerical data sets in mathematical and real-world situations. Use the shape of the graph to select the measure of center (mean, median, or mode) that best describes the data set. Calculate and interpret the measures of center (mean, median, mode) and spread (mean absolute deviation, interquartile range, range) in mathematical and real-world situations. Create histograms to represent data sets and interpret histograms to answer questions or draw conclusions about data sets.

Unit	Standards	Major Topics/Concepts
		Identify the sample space for a simple event. Calculate and interpret the theoretical probability of a simple random event. Calculate and interpret the experimental probability of a random event related to a simple experiment. Compare and contrast the experimental and theoretical probabilities for a simple experiment.
Final Comprehensive Assessment (covering all content)		