

Highlights of Changes from Previous Grade 5 Curriculum

The new Grade 5 Mathematics Curriculum includes

- expectations for students to add, subtract, multiply, and divide using standard algorithms
- an introduction to addition and subtraction of fractions with common denominators
- an increased focus on numerical and algebraic expressions
- more focus on spatial reasoning through exploration of reflection and rotation symmetry as properties of 2-D and 3-D shapes
- an introduction to location using coordinate grids
- an increased focus on data literacy, with expectations for students to interpret frequency in sets of data
- a strong foundation for understanding proportions built through knowledge of ratios

Suggestions to Support Bridging from Previous Grade 4 Curriculum to New Grade 5 Curriculum

Topic	Previous Mathematics Curriculum: Grade 4	New Mathematics Curriculum: Grade 5	Suggestions to Support Bridging
Operations	Use chosen strategies to add, subtract, multiply, and divide.	Use standard algorithms to add, subtract, multiply, and divide.	Students may need extra practice with standard algorithms in order to use them consistently for addition, subtraction, multiplication, and division.
Multiplication and Division Number Facts	Recall multiplication facts to 7 x 7 and related division facts.	There is no new expectation regarding number facts; students were expected to recall to 12 x 12 in Grade 4.	Students will need knowledge of multiplication number facts to 12 x 12 and related division facts.
Order of Operations	There is no content related to order of operations.	Evaluate numerical expressions that include multiple operations and parentheses.	Students will need an introduction to the order of operations.
Fractions	Demonstrate an understanding of fractions up to one whole.	Demonstrate an understanding of improper fractions and mixed numbers.	Students will need knowledge of equivalent fractions, including in simplest form.
Ratios	There is no content regarding percentages.	Understand that fractions, decimals, ratios, and percentages can all represent the same part-to-whole relationship.	Students may need an understanding of percentages within 100%.
Algebraic Equations	Use any strategy to solve equations with one unknown (symbol) and one operation.	Use preservation of equality to solve equations with one unknown and up to two operations.	Students will need to be able to apply preservation of equality to solve equations.
Geometry	Content related to geometric properties is focused on side lengths.	Apply geometric properties to understanding symmetry.	Students will need an understanding of geometric properties related to angles and measuring angles. Students will also need an understanding of translations, reflections, and rotations.
Patterns	Arithmetic and geometric sequences are not explicitly referenced.	Relate terms to position within an arithmetic sequence.	Students may need an introduction to arithmetic and geometric sequences.
Statistics	There is no focus on a statistical problem-solving process.	Formulate questions to collect data to answer a statistical question.	Students may need an understanding of a statistical problem-solving process.