Bridging Student Learning to New Curriculum
π Subject: Mathematics Grade 4

Highlights of Changes from Previous Grade 4 Curriculum

The new Grade 4 Mathematics Curriculum includes

- clear, detailed expectations for students to add and subtract within 10 000, including with decimal numbers, using standard procedures (algorithms)
- clear, detailed expectations for students to multiply and divide three-digit natural numbers by one-digit natural numbers, using standard procedures (algorithms)
- a strong foundation for understanding proportions built through knowledge of equivalent fractions
- an introduction to factors and multiples, order of operations, and percentages
- an introduction to measuring angles and applying angle measures to classification of triangles and quadrilaterals
- more focus on spatial reasoning through explicit knowledge related to transformations, including mathematical terminology
- explicit expectations to calculate durations of time and convert between standard units of time
- increased focus on data literacy, with expectations for students to engage in a statistical problem-solving process

Suggestions to Support Bridging from Previous Grade 3 Curriculum to New Grade 4 Curriculum

Topic	Previous Mathematics Curriculum: Grade 3	New Mathematics Curriculum: Grade 4	Suggestions to Support Bridging
Place Value	Interpret place value of numbers up to 1000.	Identify the place value of each digit in a number, including decimals to hundredths.	Students will need to be able to interpret place value to 100 000.
Addition and Subtraction	Use chosen strategies to add and subtract.	Use standard algorithms to add and subtract.	Students may need extra practice with standard algorithms in order to use them consistently for addition and subtraction.
Multiplication and Division Number Facts	Recall multiplication facts to 5 x 5 and related division facts.	Recall multiplication facts to 12 x 12 and related division facts.	Students will need knowledge of multiplication number facts to 10 x 10, and related division facts, to be successful with facts up to 12 x 12.
Fractions	There is an introduction to fractions as part-whole relationships.	Determine equivalent fractions, including simplest form.	Students may need knowledge of unit fractions and practice with naming fractions and writing fractions. They may also need an understanding of comparing fractions • with different-sized wholes • with the same numerator but different denominators • to benchmarks of 0, ½, and 1
Geometry	There is no content related to transformations.	Use transformations to verify geometric properties of polygons.	Students will need an understanding of translations, reflections, and rotations.
Angles	There is no content related to angles.	Determine and express angles using standard units.	Students will need an introduction to angles and practice identifying and comparing angles in surroundings. Students will also need to recognize 90° angles.
Time	Learn units of time.	Communicate duration with standard units of time.	Students will need an understanding of how to tell time using analog and digital clocks. Students may also need an understanding of how to express time of day in both a 12-hour cycle and a 24-hour cycle.