

Everyday Mathematics

Grade 5

Unit 1		
Number Theory		
Time to complete: 12 days		
Secure Goals	GLEs	Assessment
Draw arrays to model multiplication		WA 1
Know basic multiplication facts		WA 1, 4, 8
Identify even and odd numbers		SA 3; WA 2, 13
List the factors of a number		WA 3, 9, 10
Developing/Secure Goals	GLEs	Assessment
Use a divisibility test to determine if a number is divisible by another number		SA 4; WA 11, 12, 14
Identify prime and composite numbers		SA 3; WA 4, 5, 13, 14
Understand how square numbers and their square roots are related		SA 1; WA 8
Developing Goals		
Beginning/Developing Goals	GLEs	Assessment
Rename numbers written in exponential notation		WA 7, 8
Beginning Goals	GLEs	Assessment
Find the prime factorization of numbers		WA 6, 7

Unit 2		
Estimation & Computation		
Time to complete: 13 days		
Secure Goals	GLEs	Assessment
Find the sum and difference of multidigit whole numbers and decimals		WA 1-6
Identify the maximum, minimum, mode and mean for a data set		WA 18
Developing/Secure Goals	GLEs	Assessment
Make magnitude estimates		WA 13-17
Find the product of multidigit whole numbers and decimals		SA 2; WA 12-17

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Know place value to billions		SA 3; WA 11
Developing Goals	GLEs	Assessment
Round numbers to designated places		SA 1; WA 7-10
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment
Write and solve open sentences for number stories		WA 19

Unit 3

Geometry Explorations and the American Tour

Time to complete: 13 days

Secure Goals	GLEs	Assessment
Identify place value in numbers to billions		SA 3; WA 9
Know properties of polygons		WA 13-14, 17, 18
Define and create tessellations		WA 15, 16
Developing/Secure Goals	GLEs	Assessment
Estimate the measure of an angle		SA 5; WA 8, 17, 18
Measure an angle to within 2°		WA 4-6
Identify types of angles		SA 5; WA 4-8, 17, 18
Identify types of triangles		WA 10-14
Developing Goals	GLEs	Assessment
Determine angle measures based on relationships between angles		WA 1-3
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment

Unit 4

Division

Time to complete: 9 days

Secure Goals	GLEs	Assessment
Know Place Value to hundredths		SA 1, 3
Developing/Secure Goals	GLEs	Assessment
Developing Goals	GLEs	Assessment
Find the quotient and remainder of a whole number		WA 1-4, 9, 10, 13

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divided by a 1-digit whole number		
Find the quotient and remainder of a whole number divided by a 2-digit whole number		WA 5, 6
Make magnitude estimates for quotients of whole and decimal numbers divided by whole numbers		WA 7, 8
Interpret the remainder in division number stories		WA 9, 10
Determine the value of a variable; use this value to complete a number sentence		WA 11, 12
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment
Divide decimal numbers by whole numbers with no remainders		WA 7, 8
Write and solve number sentences with variables for division number stories		WA 9, 10, 13

Unit 5 Fractions, Decimals, & Percents

Time to complete: 15 days

Secure Goals	GLEs	Assessment
Developing/Secure Goals	GLEs	Assessment
Convert between fractions and mixed numbers		SA 4, 5; WA 4-7, 9-11
Find equivalent fractions		SA 6, WA 1-3
Developing Goals	GLEs	Assessment
Order and compare fractions		WA 15-20
Convert between fractions and percents		SA 2; WA 8
Draw a circle graph for a set of data		WA 23
Measure pieces of a circle graph; interpret a circle graph		WA 21, 22, 24-26
Beginning/Developing Goals	GLEs	Assessment
Add fractions with like denominators		WA 12-14
Beginning Goals	GLEs	Assessment

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Unit 6		
Using Data; Addition and Subtractions of Fractions		
Time to complete: 13 days		
Secure Goals	GLEs	Assessment
Find and use data landmarks		WA 1-5, 7, 21
Developing/Secure Goals	GLEs	Assessment
Convert among fractions, decimals, and percents		SA 2, 4, 5; WA 6, 8b-8d
Developing Goals	GLEs	Assessment
Add and subtract fractions with common denominators		WA 9, 11, 17c
Add and subtract fractions with unlike denominators		WA 10, 12-16, 17b
Understand how sample size affects results		WA 5b, 5c, 8e
Find a common denominator		WA 12-16, 17b, 18-20
Beginning/Developing Goals	GLEs	Assessment
Construct stem-and-leaf plots		WA 22
Read and interpret stem-and-leaf plots		WA 7, 22
Beginning Goals	GLEs	Assessment

Unit 7		
Exponents and Negative Numbers		
Time to complete: 13 days		
Secure Goals	GLEs	Assessment
Developing/Secure Goals	GLEs	Assessment
Understand and apply exponential notation		WA 1-4, 8, 10, 17, 28
Identify number sentences; tell whether a number sentence is true or false		WA 17, 18
Understand and apply the use of parentheses in number sentences		WA 19-28
Order and compare positive and negative numbers		SA 1; WA 5-16
Developing Goals	GLEs	Assessment
Understand and apply powers of 10		SA 2; WA 1-4
Understand and apply order of operations to evaluate expressions and solve number sentences		WA 19-28

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Add and subtract positive and negative numbers		WA 11-17 and 29-44
Beginning/Developing Goals	GLEs	Assessment
Understand and apply scientific notation		SA 3; WA 1-4
Beginning Goals	GLEs	Assessment

Unit 8 Fractions and Ratios

Time to complete: 15 days

Secure Goals	GLEs	Assessment
Convert among fractions, decimals and percents		SA 4; WA 1, 2
Convert between fractions and mixed or whole numbers		OA 2; SA 2; WA 20-23
Find common denominators		SA 1; WA 3, 4, 9-11, 14, 24
Developing/Secure Goals	GLEs	Assessment
Use an algorithm to add mixed numbers		WA 8, 12, 14
Order and compare fractions		WA 5, 6, 25
Developing Goals	GLEs	Assessment
Use an algorithm to multiply fractions		WA WA 18, 26, 27
Use an algorithm to subtract mixed numbers with like denominators		WA 7, 13, 15-17
Find a percent of a number		SA 3; WA 19
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment
Use an algorithm to multiply mixed numbers		WA 8, 28, 29

Unit 9 Coordinates, Area, Volume, and Capacity

Time to complete: 13 days

Secure Goals	GLEs	Assessment
Understand the concept of area of a figure		OA 1; WA 5, 11
Use a formula to find the area of rectangles		SA 3; WA 9
Developing/Secure Goals	GLEs	Assessment
Plot ordered pairs on a one-		WA 1, 12, 13

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quadrant coordinate grid		
Identify the base and height of triangles and parallelograms		WA 10, 13
Use a formula to find the area of triangles and parallelograms		WA 6-9, 13
Developing Goals	GLEs	Assessment
Plot ordered pairs on a four-quadrant coordinate grid		WA 2-3
Understand the concept of volume of a figure		OA 1; WA 14-17, 22
Use a formula to find the volume of prisms		WA 18-21
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment

Unit 10 Algebra Concepts and Skills

Time to complete: 12 days

Secure Goals	GLEs	Assessment
Developing/Secure Goals	GLEs	Assessment
Solve one-step pan-balance problems		WA 6-9
Interpret mystery line plots and graphs		WA 18
Developing Goals	GLEs	Assessment
Write algebraic expressions to describe situations		SA 1, 5; WA 1-3
Represent rate problems as formulas, graphs, and tables		WA 4, 5
Use formulas to find circumference and area of a circle		WA 11-14
Distinguish between circumference and area of circle problems		WA 15-17; OA 1
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment
Solve two-step pan-balance problems		WA 10

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Unit 11		
Volume		
Time to complete: 10 days		
Secure Goals	GLEs	Assessment
Use formulas to find the areas of polygons and circles		SA 3; WA 5, 12
Know the properties of geometric solids		OA 2; WA 1-4
Developing/Secure Goals	GLEs	Assessment
Use formulas to find the volume of prisms and cylinders		WA 6 7, 10, 11, 13, 16, 17, 19, 20
Developing Goals	GLEs	Assessment
Beginning/Developing Goals	GLEs	Assessment
Beginning Goals	GLEs	Assessment
Understand the relationship between the volume of pyramids and prisms, and the volume of cones and cylinders		WA 15, 18
Find the surface area of prisms		WA 8, 9
Understand how to find the surface area of cylinders		WA 14
Understand the concept of capacity and how to calculate it		OA 1; WA 19, 20

Unit 12		
Probability, Ratios, and Rates		
Time to complete: 12 days		
Secure Goals	GLEs	Assessment
Find and identify factors of numbers		OA 1; SA 1; WA 1, 2, 6-8, 11
Find the prime factorizations of numbers		WA 1-3
Developing/Secure Goals	GLEs	Assessment
Solve ratio and rate number stories		OA 2; WA 12-20
Developing Goals	GLEs	Assessment
Find the greatest common factor of two numbers		WA 4
Find the least common multiple of two numbers		SA 3; WA 5-8, 11
Beginning/Developing	GLEs	Assessment

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Goals		
Use the Multiplication Counting Principle to find the total number of possible outcomes of a sequence of choices		SA 4; WA 9
Beginning Goals	GLEs	Assessment
Use tree diagrams to find all possible ways a sequence of choices can be made		WA 9
Compute the probability of outcomes when choices are equally likely		WA 10