

Louisiana Comprehensive Curriculum Grade Level Expectations
for Grade 5 Mathematics
Correlated to
Academic Language Notebooks™: The Language of Math, Level E/Grade 5

GLE #	GLE Text and Benchmarks	Student Worktext and Teacher/Tutor Resource Book
Unit 1: Whole Number Review: Addition and Subtraction		
Number and Number Relations		
1.	Differentiate between the terms factor and multiple, and prime and composite (N-1-M)	Module 9: Factors and divisibility
7.	Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers (N-5-M) (N-4-M)	Module 29: Write and Solve Equations
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other content areas (N-5-M)	Module 4: Properties of Addition Module 5: Estimate Whole Numbers and Decimals Module 6: Patterns and Estimation in Multiplication Module 8: Patterns and Estimation in Division
9.	Use mental math and estimation strategies to predict the results of computations (i.e., whole numbers, addition and subtraction of fractions) and to test the reasonableness of solutions (N-6-M) (N-2-M)	
10.	Determine when an estimate is sufficient and when an exact answer is needed in real-life problems using whole numbers (N-6-M) (N-5-M)	
Algebra		
12.	Find unknown quantities in number sentences by using mental math, backward reasoning, inverse operations (i.e., unwrapping), and manipulatives (e.g., tiles, balance scales) (A-2-M) (A-3-M)	Module 8: Patterns and Estimation in Division
13.	Write a number sentence from a given physical model of an equation (e.g., balance scale) (A-2-M) (A-1-M)	Module 29: Write and Solve Equations

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14.	Find solutions to one-step inequalities and identify positive solutions on a number line (A-2-M) (A-3-M)	Module 30: Functions and Ordered Pairs
Unit 2: Whole Number Review: Multiplication and Division		
Number and Number Relations		
1.	Differentiate between the terms factor and multiple, and prime and composite (N-1-M)	Module 9: Factors and divisibility
7.	Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers (N-5-M) (N-4-M)	Module 29: Write and Solve Equations
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other content areas (N-5-M)	
9.	Use mental math and estimation strategies to predict the results of computations (i.e., whole numbers, addition and subtraction of fractions) and to test the reasonableness of solutions (N-6-M) (N-2-M)	Module 4: Properties of Addition Module 5: Estimate Whole Numbers and Decimals Module 6: Patterns and Estimation in Multiplication Module 8: Patterns and Estimation in Division
10.	Determine when an estimate is sufficient and when an exact answer is needed in real-life problems using whole numbers (N-6-M) (N-5-M)	
Algebra		
12.	Find unknown quantities in number sentences by using mental math, backward reasoning, inverse operations (i.e., unwrapping), and manipulatives (e.g., tiles, balance scales) (A-2-M) (A-3-M)	Module 8: Patterns and Estimation in Division

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13.	Write a number sentence from a given physical model of an equation (e.g., balance scale) (A-2-M) (A-1-M)	Module 29: Write and Solve Equations
14.	Find solutions to one-step inequalities and identify positive solutions on a number line (A-2-M) (A-3-M)	Module 30: Functions and Ordered Pairs
Measurement		
23.	Convert between units of measurement for length, weight, and time, in U.S. and metric, within the same system (M-5-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity
Patterns, Relations, and Functions		
33.	Fill in missing elements in sequences of designs, number patterns, positioned figures, and quantities of objects (P-1-M)	Module 30: Functions and Ordered Pairs
Unit 3: Data, Probability, and the Counting Principle		
Number and Number Relations		
2.	Recognize, explain, and compute equivalent fractions for common fractions (N-1-M) (N-3-M)	Module 12: Equivalent Fractions and Simplest Form
7.	Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers (N-5-M) (N-4-M)	Module 29: Write and Solve Equations
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other context areas (N-5-M)	
11.	Explain concepts of ratios and equivalent ratios using models and pictures in real-life problems (e.g., understand that $\frac{2}{3}$ means 2 divided by 3) (N-8-M) (N-5-M)	Module 26: Ratio and Proportion

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Data Analysis, Probability, and Discrete Math		
28.	Use various types of charts and graphs, including double bar graphs, to organize, display, and interpret data and discuss patterns verbally and in writing (D-1-M) (D-2-M) (P-3-M) (A-4-M)	Module 24: Make and Read Graphs Module 25: Statistics and Data Analysis
29.	Compare and contrast different scales and labels for bar and line graphs (D-1-M)	Module 24: Make and Read Graphs
30.	Organize and display data using spreadsheets, with technology (D-1-M)	
31.	Compare and contrast survey data from two groups relative to the same question (D-2-M)	Module 25: Statistics and Data Analysis
32.	Represent probabilities as common fractions and recognize that probabilities fall between 0 and 1, inclusive (D-5-M)	Module 28: Probability
Patterns, Relations, and Functions		
33.	Fill in missing elements in sequences of designs, number patterns, positioned figures, and quantities of objects (P-1-M)	Module 30: Functions and Ordered Pairs
Unit 4: Number Theory and Equivalent Fractions		
Number and Number Relations		
1.	Differentiate between the terms <i>factor</i> and <i>multiple</i> , and <i>prime</i> and <i>composite</i> (N-1-M)	Module 9: Factors and divisibility
2.	Recognize, explain, and compute equivalent fractions for common fractions (N-1-M) (N-3-M)	Module 12: Equivalent Fractions and Simplest Form
3.	Add and subtract fractions with common denominators and use mental math to determine whether the answer is reasonable (N-2-M)	

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4.	Compare positive fractions using number sense, symbols (i.e., $<$, $=$, $>$), and number lines (N-2-M)	
5.	Read, explain, and write a numerical representation for positive improper fractions, mixed numbers, and decimals from a pictorial representation and vice versa (N-3-M)	Module 11: Fractions and Mixed Number Concepts
6.	Select and discuss the correct operation for a given problem involving positive fractions using appropriate language, such as sum, difference, numerator, and denominator (N-4-M) (N-5-M)	Module 11: Fractions and Mixed Number Concepts
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other content areas (N-5-M)	
Unit 5: Properties in Geometry		
Measurement		
15.	Model, measure, and use the names of all common units in the US and metric systems (M-1-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity Module 22: Perimeter and Circumference
21.	Measure angles to the nearest degree (M-3-M)	
Geometry		
24.	Use mathematical terms to classify and describe the properties of 2-dimensional shapes, including circles, triangles, and polygons (G-2-M)	Module 17: Triangles, Polygons, and Quadrilaterals Module 19: Circles
25.	Identify and use appropriate terminology for transformations (e.g., <i>translation as slide, reflection as flip, and rotation as turn</i>) (G-3-M)	Module 18: Congruence, Transformations, and Symmetry
26.	Identify shapes that have rotational symmetry (G-3-M)	Module 18: Congruence, Transformations, and Symmetry

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27.	Identify and plot points on a coordinate grid in the first quadrant (G-6-M)	
Unit 6: Measurement		
Number and Number Relations		
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other content areas (N-5-M)	
11.	Explain concepts of ratios and equivalent ratios using models and pictures in life problems (e.g., understand that $\frac{2}{3}$ means 2 divided by 3)(N-8-M) (N-5-M)	Module 26: Ratio and Proportion
Measurement		
15.	Model, measure, and use the names of all common units in the U.S. and metric systems (M-1-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity Module 22: Perimeter and Circumference
16.	Apply the concepts of elapsed time in real-life situations and calculate equivalent times across time zones in real-life problems (M-1-M) (M-6-M)	
17.	Distinguish among the processes of counting, calculating, and measuring and determine which is the most appropriate strategy for a given situation (M-2-M)	
18.	Estimate time, temperature, weight/mass, and length in familiar situations and explain the reasonableness of answers (M-2-M)	
19.	Compare the relative sizes of common units for time, temperature, weight, mass, and length in real-life situations (M-2-M) (M-4-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity

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GLE #	GLE Text and Benchmarks	Student Worktext and Teacher/Tutor Resource Book
20.	Identify appropriate tools and units with which to measure time, mass, weight, temperature, and length (M-3-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity
22.	Compare and estimate measurements between the U.S. and metric systems in terms of common reference points (e.g., 1 vs. qt., m vs. yd.) (M-4-M)	
23.	Convert between units of measurement for length, weight, and time, in U.S. and metric, within the same system (M-5-M)	
Unit 7: Addition and Subtraction of Fractions		
Number and Number Relations		
2.	Recognize, explain, and compute equivalent fractions for common fractions (N-1-M) (N-3-M)	Module 12: Equivalent Fractions and Simplest Form
3.	Add and subtract fractions with common denominators and use mental math to determine whether the answer is reasonable (N-2-M)	
4.	Compare positive fractions using number sense, symbols (i.e., $<$, $=$, $>$), and number lines (N-2-M)	
5.	Read, explain, and write a numerical representation for positive improper fractions, mixed numbers, and decimals from a pictorial representation and vice versa (N-3-M)	Module 11: Fractions and Mixed Number Concepts
6.	Select and discuss the correct operation for a given problem involving positive fractions using appropriate language such as <i>sum</i> , <i>difference</i> , <i>numerator</i> , and <i>denominator</i> (N-4-M) (N-5-M)	Module 11: Fractions and Mixed Number Concepts

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9.	Use mental math and estimation strategies to predict the results of computations (i.e., whole numbers, addition and subtraction of fractions) and to test the reasonableness of solutions (N-6-M) (N-2-M)	Module 4: Properties of Addition Module 5: Estimate Whole Numbers and Decimals Module 6: Patterns and Estimation in Multiplication Module 8: Patterns and Estimation in Division
Algebra		
13.	Write a number sentence from a given physical model of an equation (e.g. balance scale) (A-2-M) (A-3-M)	Module 29: Write and Solve Equations
14.	Find solutions to one-step inequalities and identify positive solutions on a number line (A-2-M) (A-3-M)	Module 30: Functions and Ordered Pairs
Patterns, Relations, and Functions		
33.	Fill in missing elements in sequences of designs, number patterns, positioned figures, and quantities of objects (P-1-M)	Module 30: Functions and Ordered Pairs
Unit 8: Measurement and Algebra		
Number and Number Relations		
7.	Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers (N-5-M) (N-4-M)	Module 29: Write and Solve Equations
8.	Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real life and other content areas (N-5-M)	
11.	Explain concepts of ratios and equivalent ratios using models and pictures in real-life problems (e.g., understand that $\frac{2}{3}$ means 2 divided by 3) (N-8-M) (N-5-M)	Module 26: Ratio and Proportion

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12.	Find unknown quantities in number sentences by using mental math, backward reasoning, inverse operations (i.e., unwrapping), and manipulatives (e.g., tiles, balance scales) (A-2-M) (A-3-M)	Module 8: Patterns and Estimation in Division
13.	Write a number sentence from a given physical model of an equation (e.g., balance scale) (A-2-M) (A-1-M)	Module 29: Write and Solve Equations
14.	Find solutions to one-step inequalities and identify positive solutions on a number line (A-2-M) (A-3-M)	Module 30: Functions and Ordered Pairs
Measurement		
15.	Model, measure, and use the names of all common units in the U.S. and metric systems (M-1-M)	Module 21: Customary and Metric Measurement of Length, Weight/Mass, and Capacity Module 22: Perimeter and Circumference
23.	Convert between units of measurement for length, weight, and time, in U.S. and metric, within the same system (M-5-M)	
Patterns, Relations, and Functions		
33.	Fill in missing elements in sequences of designs, number patterns, positioned figures, and quantities of objects (P-1-M)	Module 30: Functions and Ordered Pairs