



## 6th Grade Correlation to Mathematics Grade level Expectations

GLE	Mathematics Curriculum Framework	Lesson Number	Lesson Title
<b>NUMBER AND NUMBER RELATIONS</b>			
1.	Factor whole numbers into primes (N-1-M)	MM1-090	Identifying Prime and Composite Numbers
		MM1-088	Applying Divisibility Rules for 2, 3, 4, 5, 6, 9 and 10
		MM1-095	Expressing a Number as a Product of Prime Numbers
2.	Determine common factors and common multiples for pairs of whole numbers (N-1-M)	MM1-105	Identifying the Greatest Common Factor and the Least Common Multiple
3.	Find the greatest common factor (GCF) and least common multiple (LCM) for whole numbers in the context of problem-solving (N-1-M)	MM1-105	Identifying the Greatest Common Factor and the Least Common Multiple
4.	Recognize and compute equivalent representations of fractions and decimals (i.e., halves, thirds, fourths, fifths, eighths, tenths, hundredths) (N-1-M) (N-3-M)	MM1-110	Comparing and Ordering Fractions with Like Denominators
		MM1-115	Writing Fractions in Simplest Form
		MM1-120	Identifying Proper and Improper Fractions
		MM1-125	Writing Mixed Numbers as Improper Fractions
		MM1-127	Writing Remainders as Fractions
		MM1-130	Identifying the Least Common Denominator
		MM1-135	Comparing and Ordering Fractions with Like and Unlike Denominators
		MM1-270	Identifying Place Value in Decimal Numbers
		MM1-275	Comparing Decimals Numbers
		MM1-280	Identifying and Writing Decimal Numbers to the Hundredths and Thousandths Place
MM1-285	Ordering Decimal Numbers According to the Tenths, Hundredths and Thousandths Place		
5.	Decide which representation (i.e., fraction or decimal) of a positive number is appropriate in a real-life situation (N-1-M) (N-5-M)	<i>Lesson in Development</i>	
6.	Compare positive fractions, decimals, and positive and negative integers using symbols (i.e., <, =, >) and number lines (N-2-M)	MM1-110	Comparing and Ordering Fractions with Like Denominators
		MM1-135	Comparing and Ordering Fractions with Like and Unlike Denominators
		MM1-275	Comparing Decimals Numbers
		MM1-570	Identifying Integers and Absolute Value
		MM1-575	Comparing and Ordering Integers
7.	Read and write numerals and words for decimals through ten-thousandths (N-3-M)	MM1-270	Identifying Place Value in Decimal Numbers
8.	Demonstrate the meaning of positive and negative numbers and their opposites in real-life situations (N-3-M) (N-5-M)	MM1-570	Identifying Integers and Absolute Value
9.	Add and subtract fractions and decimals in real-life situations (N-5-M)	MM1-300	Adding and Subtracting Decimal Numbers
		MM1-145	Adding and Subtracting Fractions with Like and Unlike Denominators

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10.	Use and explain estimation strategies to predict computational results with positive fractions and decimals (N-6-M)	MM1-305 - <i>Partial</i>	Estimating Products by Rounding to the Nearest Whole Number
11.	Mentally multiply and divide by powers of 10 (e.g., $25/10 = 2.5$ ; $12.56 \times 100 = 1,256$ ) (N-6-M)	MM1-358	Converting Fractions and Mixed Numbers with Denominators of Powers of Ten to Decimals
12.	Divide 4-digit numbers by 2-digit numbers with the quotient written as a mixed number or a decimal (N-7-M)	MM1-313 - <i>Partial</i>	Using a Two-Digit Divisor Express the Remainder as a Decimal Number
13.	Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M)	MM1-205	Writing a Ratio to Compare Two Objects
		MM1-210	Identifying and Writing Equal Ratios
		MM1-215	Identifying a Rate to Solve Problems
		MM1-220	Writing and Forming Proportions
		MM1-225	Solving Proportions
<b>ALGEBRA</b>			
14.	Model and identify perfect squares up to 144 (A-1-M)	MM1-565	Finding Squares and Square Roots
15.	Match algebraic equations and expressions with verbal statements and vice versa (A-1-M) (A-3-M) (A-5-M) (P-2-M)	MM1-615	Translating Words into Algebra
16.	Evaluate simple algebraic expressions using substitution (A-2-M)	MM1-620	Using the Order of Operations in Algebraic Expressions
17.	Find solutions to 2-step equations with positive integer solutions (e.g., $3x - 5 = 13$ , $2x + 3x = 20$ ) (A-2-M)	MM1-625	Solving Algebraic Equations Using the Inverse Operations of Addition and Subtraction
		MM1-630	Solving Algebraic Equations Using the Inverse Operations of Multiplication and Division
<b>MEASUREMENT</b>			
18.	Measure length and read linear measurements to the nearest sixteenth-inch and mm (M-1-M)	<i>Lesson in Development</i>	
19.	Calculate perimeter and area of triangles, parallelograms, and trapezoids (M-1-M)	MM1-505	Determining the Perimeter of Any Polygon
		MM1-510	Determining the Area of Parallelograms and Triangles
20.	Calculate, interpret, and compare rates such as \$/lb., mpg, and mph (M-1-M) (A-5-M)	MM1-205	Writing a Ratio to Compare Two Objects
		MM1-210	Identifying and Writing Equal Ratios
		MM1-215	Identifying a Rate to Solve Problems
21.	Demonstrate an intuitive sense of relative sizes of common units for length and area of familiar objects in real-life problems (e.g., estimate the area of a desktop in square feet, the average adult is between 1.5 and 2 meters tall) (M-2-M) (G-1-M)	MPA-130	Developing a Sense of Relative Sizes of Measures
22.	Estimate perimeter and area of any 2-dimensional figure (regular and irregular) using standard units (M-2-M)	MPA-106	Identify a Solid Figure from a Net
		MPA-055	Find the Perimeter of a Figure
		MPA-067	Find the Area of Rectangular Figures
23.	Identify and select appropriate units to measure area (M-3-M)	MPA-106	Identify a Solid Figure from a Net
		MM1-510	Determining the Area of Parallelograms and Triangles
		MPA-067	Find the Area of Rectangular Figures
<b>GEOMETRY</b>			
24.	Use mathematical terms to describe the basic properties of 3-dimensional objects (edges, vertices, faces, base, etc.) (G-2-M)	MM1-520	Finding the Surface Area of a Rectangular Prism
25.	Relate polyhedra to their 2-dimensional shapes by drawing or sketching their faces (G-2-M) (G-4-M)	MM1-520	Finding the Surface Area of a Rectangular Prism
		MPA-106	Identify a Solid Figure from a Net

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26.	Apply concepts, properties, and relationships of points, lines, line segments, rays, diagonals, circles, and right, acute, and obtuse angles and triangles in real-life situations, including estimating sizes of angles (G-2-M) (G-5-M) (G-1-M)	MM1-455	Identifying Basic Terms Used in Geometry
		MM1-460	Measuring and Classifying Angles
27.	Make and test predictions regarding tessellations with geometric shapes (G-3-M)	MM1-500	Tessellations covered in Journal
28.	Use a rectangular grid and ordered pairs to plot simple shapes and find horizontal and vertical lengths and area (G-6-M)	MM1-642	Exploring the Coordinate Plane and Graphing Ordered Pairs
<b>DATA ANALYSIS, PROBABILITY AND DISCRETE MATH</b>			
29.	Collect, organize, label, display, and interpret data in frequency tables, stem-and-leaf plots, and scatter plots and discuss patterns in the data verbally and in writing (D-1-M) (D-2-M) (A-3-M)	MM1-385	Collecting Data
		MM1-390	Understanding Data in Bar Graphs, Line Graphs, and Stem-and-Leaf Plots
		MM1-395	Analyzing Data in Line Graphs, Bar Graphs, and Stem-and-Leaf Plots
30.	Describe and analyze trends and patterns observed in graphic displays (D-2-M)	MM1-395	Analyzing Data in Line Graphs, Bar Graphs, and Stem-and-Leaf Plots
31.	Demonstrate an understanding of precision, accuracy, and error in measurement (D-2-M) (M-2-M)	MM1-445	Interpreting and Making Decisions from Graphically Represented Data
32.	Calculate and discuss mean, median, mode, and range of a set of discrete data to solve real-life problems (D-2-M)	MM1-415	Defining and Calculating the Range and the Mean
		MM1-420	Defining and Calculating the Median and the Mode
33.	Create and use Venn diagrams with two overlapping categories to solve counting logic problems (D-3-M)	<i>Lesson in Development</i>	
34.	Use lists, tree diagrams, and tables to determine the possible combinations from two disjoint sets when choosing one item from each set (D-4-M)	MPA-089	Use Tree Diagrams
35.	Illustrate and apply the concept of complementary events (D-5-M)	MM1-230	Finding the Probability of Simple Events
36.	Apply the meaning of equally likely and equally probable to real-life situations (D-5-M) (D-6-M)	MM1-230	Finding the Probability of Simple Events
<b>PATTERNS, RELATIONS AND FUNCTIONS</b>			
37.	Describe, complete, and apply a pattern of differences found in an input-output table (P-1-M) (P-2-M) (P-3-M)	<i>Lesson in Development</i>	
38.	Describe patterns in sequences of arithmetic and geometric growth and now-next relationships (i.e., growth patterns where the next term is dependent on the present term) with numbers and figures (P-3-M) (A-4-M)	MM1-020	Identifying and Finding Desirable Number Patterns Using Whole Numbers

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Louisiana Grade Level Expectations for Grade 6 document adopted by the Louisiana State Board of Education.