



DESTINATION Math[®]

**Correlation of Destination Math[®] Courseware
(Mastering Skills and Concepts Course III)
to Florida Sunshine State Standards
and Grade Level Expectations
2003**



Mastering Skills & Concepts: Course III / Module 1: Numbers and Number Sense

Sunshine State Standards: Grade Level Expectations	Unit Title: Large and Small Numbers	Learning Objectives in Lesson
<p>Benchmark MA. A. 1. 2. 1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Reads, writes, and identifies whole numbers through millions or more. (obj. 5) <p>Benchmark MA. A. 2. 2. 1 GLE Third Grade</p> <ul style="list-style-type: none"> Knows the value of a given digit in whole numbers to hundred thousands, including writing and interpreting expanded forms of numbers. (obj. 3, 4) Knows the value of each place is 10 times that of the place to its right (for example, $1,000 = 10 \times 100$). (obj. 1) <p>Fourth Grade</p> <ul style="list-style-type: none"> Knows the value of a given digit in numbers from hundredths to millions, including writing and interpreting expanded forms of numbers. (obj. 2, 3, 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> Knows the place value relates to powers of 10. (obj. 1) Expresses numbers to millions or more in expanded form using powers of ten, with or without exponential notation. (obj. 1, 2, 3) 	<p>Whole Numbers to One Million</p>	<ol style="list-style-type: none"> Using 10 to generate the pattern of numbers 1, 10, 100, 1,000, 10,000, 100,000, and 1,000,000 and to represent them in standard and word form Expanding the place-value grid up to 1,000,000 Representing a number up to one million in expanded form and as the product of each digit times its place value Representing a number up to one million in expanded form and as the product of each digit times its place value Writing the word names of numbers up to a million
<p>Benchmark MA. A. 1. 2. 2 GLE Third Grade</p> <ul style="list-style-type: none"> Uses language and symbols ($>$, $<$, $=$) to compare the relative size of numbers in the same form. (obj. 2) Compares and orders whole numbers through hundred thousands or more, using concrete materials, numbers lines, drawings, and numeral. (obj. 1) <p>Fourth Grade</p> <ul style="list-style-type: none"> Uses language and symbols ($>$, $<$, $=$) to compare the relative size of numbers in the same form and in two different forms such as $\frac{3}{4} < 1$. (obj. 2) Compares and orders whole numbers through millions or more, using concrete materials, numbers lines, drawings, and numeral. (obj. 1) 	<p>Ordering and Rounding Whole Numbers</p>	<ol style="list-style-type: none"> Comparing and ordering large numbers using place-value grids and/or number lines Using equality or inequality signs to express the relationship between two whole numbers Rounding whole numbers down to specified place values Rounding whole numbers up to specified place values

Mastering Skills & Concepts: Course III / Module 1: Numbers and Number Sense

Sunshine State Standards: Grade Level Expectations	Unit Title: Large and Small Numbers (continued)	Learning Objectives in Lesson
<p>Benchmark MA. A. 1.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Knows word names and standard numerals for integers, fractions, decimals, ratios, numbers expressed as percents, numbers with exponents, numbers expressed in scientific notation, and numbers expressed using the square root radical. (obj. 1) 	Negative Whole Numbers	<ol style="list-style-type: none"> Graphing positive and negative whole numbers on a number line Comparing two or more integers using statements involving $<$, $>$, $=$ Rounding negative integers to a designated place value
Sunshine State Standards: Grade Level Expectations	Unit Title: Numbers as Factors	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> Solves multiplication basic facts using various strategies including the following: applying the commutative property of multiplication. (obj. 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> Knows the properties of numbers including the following: the zero and identity properties of multiplication. (obj. 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the commutative, associative, and distributive properties of multiplication. (obj. 2, 3) 	Finding Factors	<ol style="list-style-type: none"> Using an area model to represent multiplication Demonstrating that multiplication is commutative Finding the pairs of factors of a whole number Recognizing that any number has 1 and itself as factors
<p>Benchmark MA. A. 5.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> Finds factors of numbers to 100 to determine if they are prime or composite. (obj. 1) Expresses a whole number as a product of its prime factors. (obj. 2) 	Prime and Composite Numbers	<ol style="list-style-type: none"> Identifying the prime numbers less than 50 Determining the prime factors of a number
<p>Benchmark MA. A. 5.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> Determines the greatest common factor or two numbers. (obj. 1, 3) 	Identifying Common Factors	<ol style="list-style-type: none"> Finding the common factors of two whole numbers Using factor trees and a Venn diagram to identify the greatest common factor of two 2-digit numbers Finding the greatest common factor of two 3-digit numbers

Mastering Skills & Concepts: Course III / Module 2: Operations with Numbers

Sunshine State Standards: Grade Level Expectations	Unit Title: Addition and Subtraction of Whole Numbers	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the addition and subtraction of whole numbers (up to three digits or more) using concrete materials, drawings, symbols, and algorithms. (obj. 1, 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> Knows the properties of numbers including the following: the identity, commutative, and associative properties of addition. (obj. 3) 	Whole Number Sums	<ol style="list-style-type: none"> Estimating the sum of two or more 3-, 4-, and 5- digit numbers Finding the sum of two or more 3-, 4- and 5- digit numbers Checking an addition by using the commutative property of addition
<p>Benchmark MA. A. 3.2.1 GLE Third Grade</p> <p>Explains and demonstrates the addition and subtraction of whole numbers (up to three digits or more) using concrete materials, drawings, symbols, and algorithms. (obj. 1, 2)</p>	Differences Between Large Numbers	<ol style="list-style-type: none"> Using regrouping to subtract two 4-digit numbers Checking the difference by addition Using regrouping to subtract two 5-digit numbers Checking the difference by addition
Sunshine State Standards: Grade Level Expectations	Unit Title: The Integers	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Uses concrete models and real-world examples to explore the inverse relationship of positive and negative numbers. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers and integers. (obj. 1, 2, 3) 	Integer Sums	<ol style="list-style-type: none"> Finding the sum of two positive whole numbers using a number line Finding the sum of two negative integers Finding the sum of a positive and negative whole number
<p>Benchmark MA. A. 3.2.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Uses concrete models and real-world examples to explore the inverse relationship of positive and negative numbers. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Uses models or pictures to show the effects of addition, subtraction, multiplication, and division on whole numbers, decimals, fractions, mixed numbers and integers. (obj. 1, 2, 3) Knows the inverse relationship of positive and negative numbers. (obj. 1) 	Differences Between Integers	<ol style="list-style-type: none"> Recognizing that the sum of two opposites is 0 Representing the sum of two integers using colored chips Finding the difference between a negative integer and a positive integer Checking a difference using addition

Mastering Skills & Concepts: Course III / Module 2: Operations with Numbers

Sunshine State Standards: Grade Level Expectations	Unit Title: Multiplication and Division of Whole Numbers	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the multiplication and division of whole numbers using manipulatives, drawings, and algorithms. (obj. 3) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows and applies the commutative, associative, and distributive properties in the addition and multiplication of rational numbers. (obj. 4) 	<p>Two-Digit Multipliers</p>	<ol style="list-style-type: none"> Modeling the product of a 2-digit number and a 1- digit number using the areas of rectangles Applying the distributive property to multiply two numbers Using the multiplication algorithm to find the product of two 2-digit numbers Checking a product using the commutative property of multiplication
<p>Benchmark MA. A. 3.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Applies the properties of rational numbers to solve problems (commutative, associative, distributive, identity, equality, inverse). (obj. 3) <p>Benchmark MA. A. 3.2.3 GLE Fourth Grade</p> <ul style="list-style-type: none"> Solves real-world division problems having divisors of one digit and dividends of three digits, with or without remainders. (obj. 1, 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving addition, subtraction, multiplication, and division of whole numbers. (obj. 1, 3, 4) 	<p>Introduction to Long Division</p>	<ol style="list-style-type: none"> Modeling the quotient of a 3-digit number and a 1-digit number using areas of rectangles Estimating a quotient by locating it between consecutive multiples of 10 Checking the division by multiplying the quotient and the divisor Using the division algorithm to divide a 3-digit number by a 1-digit number without a remainder.
<p>Benchmark MA. A. 3.3.1 GLE Seventh Grade</p> <ul style="list-style-type: none"> Applies the properties of rational numbers to solve problems (commutative, associative, distributive, identity, equality, inverse). (obj. 1) <p>Benchmark MA. A. 3.2.3 GLE Fourth Grade</p> <ul style="list-style-type: none"> Solves real-world division problems having divisors of one digit and dividends of three digits, with or without remainders. (obj. 1, 2) <p>Fifth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving addition, subtraction, multiplication, and division of whole numbers. (obj. 1, 2) 	<p>Two-Digit Divisors</p>	<ol style="list-style-type: none"> Divide a 4-digit number by a 2-digit number Identify the remainder in a division problem

Sunshine State Standards: Grade Level Expectations	Unit Title: Proper and Improper Fractions	Learning Objectives in Lesson
<p>Benchmark MA. A. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Reads, writes, and identifies proper fractions with denominators including 2, 3, 4, 5, 6, 8, 10, and 100. (obj. 1, 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Reads and writes and identifies fractions and mixed numbers with denominators. (obj. 1, 2) <p>Benchmark MA. A. 1.2.2 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Locates whole numbers, fractions, mixed numbers, and decimals on a number line. (obj. 1, 2, 3) <p>Fifth Grade</p> <ul style="list-style-type: none"> • Compares and orders commonly used fractions, percents, and decimals to thousandths using concrete materials, number lines, drawings, and numerals. (obj. 1, 2, 3) • Locate whole numbers, fractions, mixed numbers, and decimals on the same number line. (obj. 1, 2, 3) <p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> • Compares and orders integers, fractions, decimals, numbers with exponents, and numbers expressed as percents or in scientific notation, including ordering on a number line. (obj. 1, 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> • Compares and orders fractions, decimals, integers, and radicals using graphic models, numbers lines, and symbols. (obj. 1, 2, 3) 	<p>Proper Fractions</p>	<ol style="list-style-type: none"> 1. Plotting unit fractions on the number line 2. Plotting proper and improper fractions on the number line

Mastering Skills & Concepts: Course III / Module 3: Fractions

Sunshine State Standards: Grade Level Expectations	Unit Title: Proper and Improper Fractions (continued)	Learning Objectives in Lesson
<p>Benchmark MA. A. 1.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Reads and writes and identifies fractions and mixed numbers with denominators. (obj. 1, 2) <p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> • Compares and orders integers, fractions, decimals, numbers with exponents, and numbers expressed as percents or in scientific notation, including ordering on a number line. (obj. 1, 2, 3) <p>Eighth Grade</p> <ul style="list-style-type: none"> • Compares and orders fractions, decimals, integers, and radicals using graphic models, numbers lines, and symbols. (obj. 1, 2, 3) 	<p>Improper Fractions</p>	<ol style="list-style-type: none"> 1. Investigating improper fractions 2. Expressing an improper fraction as a mixed number 3. Plotting improper fractions and mixed numbers on a number line
<p>Benchmark MA. A. 1.2.4 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Uses concrete materials to model equivalent forms of whole numbers and common fractions. (obj. 1) <p>Benchmark MA. E. 1.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Interprets and completes circle graphs using common fractions. (obj.) <p>Fifth Grade</p> <ul style="list-style-type: none"> • Interprets and completes circle graphs using common fractions. (obj. 1) 	<p>Equivalent Fractions</p>	<ol style="list-style-type: none"> 1. Using a circle graph to represent fractions 2. Reducing a fraction to lowest terms 3. Using the multiplication property of 1 to rewrite a given fraction as an equivalent fraction
<p>Benchmark MA. A. 1.2.2 GLE Third Grade</p> <ul style="list-style-type: none"> • Compares and orders commonly used fractions, including halves, thirds, fourths, fifths, sixths and eights, using concrete materials. (obj. 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Compares and orders commonly used fractions, percents, and decimals to thousandths using concrete materials, number lines, drawings, and numerals. (obj. 2) 	<p>Ordering and Rounding Fractions</p>	<ol style="list-style-type: none"> 1. Finding a common denominator for two fractions 2. Comparing and ordering two fractions 3. Rounding a fraction to the nearest whole number

Sunshine State Standards: Grade Level Expectations	Unit Title: Addition and Subtraction	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the addition and subtraction of common fractions using concrete materials, drawings, story problems, and algorithms. (obj. 1, 2) <p>Fifth Grade</p> <ul style="list-style-type: none"> Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 1, 3) <p>Benchmark MA. A. 3.2.3 GLE Fourth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving the addition or subtraction of decimals or common fractions with like or unlike denominators. (obj. 2, 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving addition, subtraction, multiplication, and division of whole numbers, and addition and subtraction, and multiplication of decimals, fractions, and mixed numbers using an appropriate method. (obj. 2, 4) 	<p>Sums Involving Like Denominators</p>	<ol style="list-style-type: none"> Estimating the sum of two fractions to the nearest whole number Calculating the sum of two fractions having like denominators Estimating the sum of fractions and mixed numbers to the nearest whole number Calculating the sum of fractions and mixed numbers

Mastering Skills & Concepts: Course III / Module 3: Fractions

Sunshine State Standards: Grade Level Expectations	Unit Title: Addition and Subtraction (continued)	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the addition and subtraction of common fractions using concrete materials, drawings, story problems, and algorithms. (obj. 1, 2) <p>Fifth Grade</p> <ul style="list-style-type: none"> Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 1, 3) <p>Benchmark MA. A. 3.2.3 GLE Fourth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving the addition or subtraction of decimals or common fractions with like or unlike denominators. (obj. 2, 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> Solves real-world problems involving addition, subtraction, multiplication, and division of whole numbers, and addition and subtraction, and multiplication of decimals, fractions, and mixed numbers using an appropriate method. (obj. 2, 4) 	<p>Differences Involving Like Denominators</p>	<ol style="list-style-type: none"> Calculating the difference between two simple fractions having like denominators Estimating the difference between two mixed numbers to the nearest whole number Calculating and checking the difference between two mixed numbers
<p>Benchmark MA. A. 1.3.4 GLE Sixth Grade</p> <ul style="list-style-type: none"> Converts a number expressed in one form to its equivalent in another form. (obj. 1) <p>Seventh Grade</p> <ul style="list-style-type: none"> Converts a number expressed in one form to its equivalent in another form. (obj. 1) <p>Benchmark MA. A. 3.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 1, 3) 	<p>Working with Unlike Denominators</p>	<ol style="list-style-type: none"> Identifying a common denominator for fractions that have unlike denominators Estimating and calculating the sum or difference of fractions having unlike denominators Estimating and calculating the sum or difference for mixed numbers whose fractional parts have unlike denominators

Mastering Skills & Concepts: Course III / Module 3: Fractions

Sunshine State Standards: Grade Level Expectations	Unit Title: Multiplication and Division	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> • Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 3) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Knows the effects of the four basic operations on whole numbers, fractions, mixed numbers, and decimals. (obj. 1, 2) 	<p>Finding Products</p>	<ol style="list-style-type: none"> 1. Calculating the products of proper and improper fractions 2. Calculating products of fractions and mixed numbers 3. Estimating the products of two fractions
<p>Benchmark MA. A. 3.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> • Explains and demonstrates the inverse nature of multiplication and division, with particular attention to multiplication by a fraction. (obj. 1) 	<p>Quotients and Remainders</p>	<ol style="list-style-type: none"> 1. Dividing a whole number by a proper fraction 2. Estimating the quotient of two mixed numbers or improper fractions 3. Dividing two mixed numbers or improper fractions

Sunshine State Standards: Grade Level Expectations	Unit Title: Introduction	Learning Objectives in Lesson
<p>Benchmark MA. A. 1.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Reads, writes, and identifies decimals through hundredths. (obj. 1, 2, 3, 4) <p>Fifth Grade</p> <ul style="list-style-type: none"> • Reads, writes, and identifies decimals through thousandths. (obj. 1, 2, 3, 4) <p>Benchmark MA. A. 1.2.3 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Translates problem situations into diagrams and models using whole numbers, fractions, mixed numbers and decimals to hundredths including money notation. (obj. 1, 3, 4) <p>Benchmark MA. A. 2.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Knows the value of a given digit in numbers from hundredths to millions. (obj. 4) 	<p>Tenths, Hundredths, and Thousandths</p>	<ol style="list-style-type: none"> 1. Using a place value grid to explore 1-place decimal numbers 2. Representing tenths in standard form, expanded form, and word form 3. Using a place value grid to explore 2- and 3-place decimal numbers 4. Representing hundredths and thousandths in standard form, expanded form, and word form
<p>Benchmark MA. A. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Compares and orders fractions and decimals using graphic models, number lines, and symbols. (obj. 3) • Compares and orders fractions, decimals, and common percents. (obj. 3) <p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Explains and demonstrates the addition and subtraction of decimals (to hundredths) using concrete materials, drawings, story problems, and algorithms. (obj. 2, 3) <p>Benchmark MA. A. 1.3.4 Sixth Grade</p> <ul style="list-style-type: none"> • Converts a number expressed in one form to its equivalent in another form. (obj. 4) 	<p>Ordering and Rounding</p>	<ol style="list-style-type: none"> 1. Rounding decimals to the nearest tenth 2. Representing data on a bar graph 3. Comparing and ordering two or more decimals <p>Ratios, Decimals, and Percents</p> <ol style="list-style-type: none"> 1. Expressing ratios as percents 2. Expressing a decimal as a percent 3. Expressing the equivalences among ratios, decimals, and percents

Mastering Skills & Concepts: Course III / Module 4: Decimals

Sunshine State Standards: Grade Level Expectations	Unit Title: Addition and Subtraction	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the addition and subtraction of decimals (to hundredths) using concrete materials, drawings, story problems, and algorithms. (obj. 2, 3) <p>Fifth Grade</p> <ul style="list-style-type: none"> Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 1) 	Adding Decimals	<ol style="list-style-type: none"> Estimating the sum of two or more decimals by rounding decimals to the nearest whole number Adding decimal numbers in tenths and hundredths without regrouping Adding decimal numbers in tenths, hundredths, and thousandths with regrouping Checking an addition of decimals using their fractional equivalents
<p>Benchmark MA. A. 3.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the addition and subtraction of decimals (to hundredths) using concrete materials, drawings, story problems, and algorithms. (obj. 2, 3) <p>Fifth Grade</p> <ul style="list-style-type: none"> Predicts the relative size of solutions in the following: addition and subtraction, and multiplication of fractions, decimals, and mixed numbers, with particular attention given to fraction and decimal multiplication. (obj. 1) 	Subtracting Decimals	<ol style="list-style-type: none"> Estimating the difference between two decimal numbers by rounding each decimal to the nearest whole number Using regrouping to find the difference between two decimal numbers in tenths and hundredths and checking using addition Using regrouping to find the difference between two decimal numbers in thousandths and checking using addition
Sunshine State Standards: Grade Level Expectations	Unit Title: Multiplication and Division	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the multiplication of decimals to hundredths using concrete materials, drawings, story problems, and algorithms. (obj. 1, 2) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations of whole numbers, fractions, mixed numbers and decimals. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations of whole numbers, fractions, mixed numbers and decimals. (obj. 1, 2, 3) 	Multiplying Decimals	<ol style="list-style-type: none"> Estimating and finding the product of a decimal and a whole number Estimating and finding the product of two decimals Inserting zeros in a product to place the decimal point Checking the product of two decimals using fractional equivalents

Sunshine State Standards: Grade Level Expectations	Unit Title: Multiplication and Division (continued)	Learning Objectives in Lesson
<p>Benchmark MA. A. 3.2.1 GLE Fifth Grade</p> <ul style="list-style-type: none"> Explains and demonstrates the multiplication of decimals to hundredths using concrete materials, drawings, story problems, and algorithms. (obj. 1, 2) <p>Benchmark MA. A. 3.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations of whole numbers, fractions, mixed numbers and decimals. (obj. 1, 2, 3) <p>Seventh Grade</p> <ul style="list-style-type: none"> Knows the effects of the four basic operations of whole numbers, fractions, mixed numbers and decimals. (obj. 1, 2, 3) 	<p>Dividing Decimals by Whole Numbers</p>	<ol style="list-style-type: none"> Estimating the answer of a decimal number greater than 1 divided by a whole number less than the decimal Dividing a decimal number greater than 1 by a whole number that is less than the dividend, and checking the answer by multiplication Estimating the answer of a decimal number less than 1 divided by a whole number Dividing a decimal number greater than 1 by a whole number that is greater than the dividend, and checking by multiplication

Sunshine State Standards: Grade Level Expectations	Unit title: Measurement	Learning Objectives in Lesson
<p>Benchmark MA. A. B. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Knows right angles (90 degrees). (obj. 1, 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Investigates angle measures using models and manipulatives for the common angles of 45,90 and 180 degrees and uses these angles as references points for measures of other angles. (obj. 1, 2) <p>Fifth Grade</p> <ul style="list-style-type: none"> • Knows the characteristics of and relationships among points, lines, line segments, rays, and planes. (obj. 1) <p>Benchmark MA. A. B. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Identifies a protractor as a tool for measuring angles and measures angles using a protractor. (obj. 3) 	<p>Lines, Angles, and Circles</p>	<ol style="list-style-type: none"> 1. Exploring lines, segments, rays and angles 2. Classifying angles 3. Using a protractor
<p>Benchmark MA. A. C. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Uses appropriate geometric vocabulary to describe two- and three- dimensional figures (for example, parallel and perpendicular lines, quadrilateral, right angle). (obj. 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Draws and classifies two-dimensional figures having up to eight or more sides. (obj. 1) <p>Benchmark MA. A. B. 1.3.2 GLE Third Grade</p> <ul style="list-style-type: none"> • Compares the concepts of area and perimeter through the use of concrete and graphic materials. (obj. 3, 4) 	<p>Rectangles and Squares</p>	<ol style="list-style-type: none"> 1. Examining the properties of a rectangle and a square 2. Defining perpendicular and parallel lines 3. Calculating the perimeters of rectangles and squares 4. Exploring the relationship between the perimeters and areas of rectangles and squares

<p>Benchmark MA. A. C. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Uses appropriate geometric vocabulary to describe two- and three- dimensional figures (for example, parallel and perpendicular lines, quadrilateral, right angle). (obj. 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Uses appropriate geometric vocabulary to describe properties and attributes of two- and three- dimensional figures. (obj. 3, 4) <p>Benchmark MA. A. B. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Identifies and names angles according to their measure (including acute, right, obtuse, straight). (obj. 1, 2, 4) • Classifies triangles according to the measurement of their angles and according to the lengths of their sides. (obj. 1, 4) • Determines the measure of a missing angle using angle relationships. (obj. 2) 	<p>Triangles</p>	<ol style="list-style-type: none"> 1. Classifying triangles according to the measure of their sides 2. Determining that the sum of the angles of a triangle equals 180 degrees 3. Finding the perimeter of a triangle 4. Classifying triangles according to the measures of their angles
<p>Benchmark MA. A. C. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Uses appropriate geometric vocabulary to describe two- and three- dimensional figures. (obj. 1, 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Uses appropriate geometric vocabulary to describe properties and attributes of two- and three- dimensional figures. (obj. 1, 2) <p>Benchmark MA. A. C. 3.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> • Compares the concepts of area and perimeter through the use of concrete and graphic materials. (obj. 2, 4) • Applies the concepts of area and perimeter of rectangles to solve real-world and mathematical problems through the use of concrete materials. (obj. 2, 4) <p>Fourth Grade</p> <ul style="list-style-type: none"> • Compares the concepts of area and perimeter using concrete materials. (obj. 2, 4) • Applies the concepts of area and perimeter to solve real-world and mathematical problems. (obj. 2, 4) 	<p>Parallelograms and Trapezoids</p>	<ol style="list-style-type: none"> 1. Exploring the properties of a parallelogram 2. Discovering the area formula of a parallelogram 3. Exploring the properties of a trapezoid 4. Discovering the area formula of a triangle

Mastering Skills & Concepts: Course III / Module 5: Geometry

Sunshine State Standards: Grade Level Expectations	Unit Title: Coordinate Geometry and Algebra	Learning Objectives in Lesson
<p>Benchmark MA. A. C. 3.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> Knows now to identify, locate, and plot ordered pairs of whole numbers on a graph. (obj. 1) <p>Fourth Grade</p> <ul style="list-style-type: none"> Knows how to identify, locate, and plot ordered pairs of whole numbers on a graph or on the first quadrant of a coordinate system. (obj. 1) <p>Fifth Grade</p> <ul style="list-style-type: none"> Knows how to identify, locate, and plot ordered pairs of whole numbers of a graph or on the first quadrant of a coordinate system. (obj. 1) 	<p>The Coordinate Plane</p>	<ol style="list-style-type: none"> Plotting and reading ordered pairs in a coordinate plane Finding vertical and horizontal distances between points in a coordinate plane Finding perimeters and areas of polygons graphed in a coordinate plane
<p>Benchmark MA. A. C. 2.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Identifies and performs the various transformations. (obj. 1, 2, 3) 	<p>Symmetry and Transformations</p>	<ol style="list-style-type: none"> Exploring line symmetry and reflections in the coordinate plane Exploring translations in the coordinate plane Exploring rotations in the coordinate plane

Sunshine State Standards: Grade Level Expectations	Unit Title: Modeling and Displaying Events	Learning Objectives in Lesson
<p>Benchmark MA. E. 1.2.1 GLE Third Grade</p> <ul style="list-style-type: none"> Identifies parts of a graph. (obj. 1) Interprets and explains orally and in writing displays of data. (obj. 1, 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> Knows the purpose of different parts of a graph. (obj. 1) Interprets and compares information from different types of graphs including graphs from content-area materials and periodicals. (obj. 1, 3) Analyzes and explains orally or in writing the implications of data displays. (obj. 1, 3) <p>Benchmark MA. E. 1.2.2 GLE Third Grade</p> <ul style="list-style-type: none"> Uses concrete materials to determine the mean in a set. (obj. 2) Identifies the median and mode from a set of numerical data. (obj. 2) <p>Fourth Grade</p> <ul style="list-style-type: none"> Uses a calculator to determine the range and mean of a set of data. (obj. 2) <p>Fifth Grade</p> <ul style="list-style-type: none"> Uses a calculator to determine the range and mean of a set of data. (obj. 2) <p>Benchmark MA. E. 1.3.1 GLE Sixth Grade</p> <ul style="list-style-type: none"> Reads and analyzes data displayed in a variety of forms. (obj. 1, 3) Generates and collects data for analysis. (obj. 1, 3) Constructs, interprets, and explains displays of data, such as tables and graphs. (obj. 1) <p>Benchmark MA. E. 1.3.2 GLE Sixth Grade</p> <p>Finds the range, mean, median, and mode of a set of data. (obj. 2)</p>	<p>Displaying and Analyzing Data</p>	<ol style="list-style-type: none"> Creating and analyzing the graphs of sets of 1- dimensional data Finding the mean, median, mode in a set of 1- dimensional data Graphing and analyzing sets of dimensional data

<p>Benchmark MA. E. 2.2.1 GLE Fourth Grade</p> <ul style="list-style-type: none"> • Determines the number of possible combinations of given items and displays them in an organized way. (obj. 1) • Represents all possible outcomes for a simple probability situation or event using models such as organized lists, charts, or tree diagrams. (obj. 1) • Calculates the probability of a particular even occurring from a set of all possible outcomes. (obj. 3) <p>Fifth Grade</p> <ul style="list-style-type: none"> • Determines the number of possible combinations of given items and displays them in an organized way. (obj. 1) • Represents all possible outcomes for a simple probability situation or event using models such as organized lists, charts, or tree diagrams. (obj. 1) <p>Calculates the probability of a particular even occurring from a set of all possible outcomes. (obj. 3)</p> <p>Benchmark MA. E. 1.3.2 GLE Sixth Grade</p> <ul style="list-style-type: none"> • Describes a set of data by using the measures of central tendency. (obj. 2) <p>Benchmark MA. E. 2.3.1 GLE Sixth Grade</p> <p>Determines all possible outcomes of an event using a tree diagram or organized list. (obj. 1)</p>	<p>Looking at Chance</p>	<ol style="list-style-type: none"> 1. Using a tree diagram to represent the outcomes in a probability experiment 2. Representing the frequencies, ratios, and percentages of outcomes in a simple probability experiment 3. Determining the probability of two independent outcomes
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