

Grade 4		
CONTENT DOMAIN	CONTENT STANDARDS <i>The learners should have knowledge and understanding of ...</i>	LEARNING COMPETENCIES <i>The learners ...</i>
Quarter 1		
Measurement and Geometry (MG)	<ol style="list-style-type: none"> 1. measures of angles 2. properties of triangles and quadrilaterals. 3. perimeter of quadrilaterals, and composite figures composed of triangles and quadrilaterals. 	<ol style="list-style-type: none"> 1. illustrate different angles (right, acute, and obtuse) using models. 2. measure and draw angles using a protractor. 3. draw and state the properties of triangles and quadrilaterals. 4. classify triangles and quadrilaterals according to sides and angles. 5. differentiate different quadrilaterals. 6. find the perimeter of quadrilaterals that are not squares or rectangles. 7. find the perimeter of composite figures composed of triangles and quadrilaterals.
Number and Algebra (NA)	<ol style="list-style-type: none"> 4. whole numbers up to 1 000 000. 5. addition of numbers with sums up to 1 000 000 and subtraction of numbers where both numbers are less than 1 000 000. 	<ol style="list-style-type: none"> 8. read and write numbers up to 1 000 000 in numerals and in words. 9. determine <ol style="list-style-type: none"> a. the place value of a digit in a 6-digit number, b. the value of a digit, and c. the digit of number, given its place value. 10. compare numbers up to 1 000 000 using =, < and >. 11. round numbers to the nearest hundred thousand. 12. estimate the sum and difference of two 5- to 6-digit numbers by rounding the addends to the nearest large place value of the numbers. 13. add numbers with sums up to 1 000 000 and subtracts numbers where both numbers are less than 1 000 000, with and without regrouping.
Performance Standards <i>By the end of the quarter, the learners are able to ...</i> <ul style="list-style-type: none"> • illustrate and measure different angles (MG) • classify triangles and quadrilateral, and differentiate quadrilaterals, by applying their properties. (MG) • find the perimeter of quadrilaterals and composite figures composed of triangles and quadrilaterals. (MG) • read, write, and compare whole numbers up to 1 000 000. (NA) • performs addition of numbers with sums up to 1 000 000 and subtraction of numbers where both numbers are less than 1 000 000. (NA) 		

Grade 4		
Quarter 2		
Number and Algebra (NA)	1. multiplication of whole numbers with products-up to 1 000 000, division of up to 4-digit numbers by up to 2-digit numbers, and the MDAS rules.	<ol style="list-style-type: none"> 1. multiply two numbers with and without regrouping: <ol style="list-style-type: none"> a. 3- to 4-digit numbers by a 1-digit number, and b. 2- to 3-digit numbers by 2-digit numbers, with products up to 1 000 000. 2. estimate the result of multiplying two numbers where the product is less than 1 000 000. 3. solve multi-step problems involving one or more of the four operations with results of calculations up to 1 000 000, including problems involving money. 4. divide two numbers with and without regrouping <ol style="list-style-type: none"> a. 3- to 4-digit numbers by 1-digit numbers b. 2- to 3-digit numbers by 2-digit numbers 5. estimate the quotient when dividing 3- to 4-digit dividends by 1- to 2-digit divisors, by first estimating the dividends and divisors using multiples of 10. 6. represent situations involving one or more of the four operations using a number sentence. 7. perform two or more different operations by applying the MDAS rules.
Measurement and Geometry (MG)	2. conversion of units of length, mass, capacity, and time.	<ol style="list-style-type: none"> 8. convert common units of measure from larger to smaller units, and vice versa: <ol style="list-style-type: none"> a. meter and centimeter, b. kilometer and meter, c. kilogram and gram, d. gram and milligram, and e. liter and milliliter. 9. convert time measures from smaller to larger units, and vice versa: <ol style="list-style-type: none"> a. seconds to minutes, b. minutes to hours, c. hours to days, d. days to weeks e. weeks to months, and f. months to years. 10. solve problems involving conversion of units of length, mass, capacity, and time, including problems involving elapsed time in hours and minutes.
Number and Algebra (NA)	3. addition and subtraction of similar fractions, including mixed numbers.	<ol style="list-style-type: none"> 11. identify proper fractions, improper fractions, and mixed numbers. 12. rewrite improper fractions into mixed numbers, and vice versa. 13. plot fraction (proper fractions, improper fractions, and mixed numbers) with denominators 2, 4, 5, and 10 on the number line. 14. add and subtract similar fractions: <ol style="list-style-type: none"> a. two proper fractions, b. two mixed numbers, c. a mixed number and a proper fraction, d. a whole number and a proper fraction, and e. a whole number and a mixed number.

Performance Standards

By the end of the quarter, the learners are able to ...

- perform multiplication of whole numbers with products up to 1 000 000. (NA)
- perform division of up to 4-digit numbers by up to 2-digit numbers. (NA)
- perform different operations by applying the MDAS rules. (NA)
- convert units of length, mass, capacity, and time. (MG)
- perform addition and subtraction of similar fractions, including mixed numbers. (NA)

Grade 4		
Quarter 3		
Number and Algebra (NA)	<ol style="list-style-type: none"> 1. dissimilar and equivalent fractions. 2. factors and multiples of numbers up to 100. 3. addition and subtraction of dissimilar fractions. 	<ol style="list-style-type: none"> 1. represent dissimilar fractions, with denominators up to 10, using models. 2. compare dissimilar fractions using the symbols =, >, and <. 3. order dissimilar fractions from smallest to largest, and vice versa. 4. generate equivalent fractions using models. 5. determine equivalent fractions. 6. identify the multiples of given numbers up to 100. 7. find all the factors of a given number up to 100. 8. reduce fractions to simplest form. 9. add and subtract dissimilar fractions using models. 10. add and subtract dissimilar fractions: <ol style="list-style-type: none"> a. two proper fractions, b. two mixed numbers, c. a mixed number and a proper fraction, d. a whole number and a proper fraction, and e. a whole number and a mixed number. 11. solve multi-step problems involving addition and/or subtraction of fractions.
Measurement and Geometry (MG)	<ol style="list-style-type: none"> 4. symmetric figures with respect to a line 5. resulting images after applying reflection with respect to a line. 	<ol style="list-style-type: none"> 12. identify symmetry with respect to a line. 13. complete a figure that is symmetric with respect to a line. 14. draws the image of an object after applying reflection with respect to a line, including glide reflection.
<p>Performance Standards</p> <p><i>By the end of the quarter, the learners are able to ...</i></p> <ul style="list-style-type: none"> • represent, compare, and order dissimilar fractions. (NA) • find factors and multiples of numbers up to 100. (NA) • identify symmetry with respect to a line, and create figures that have line symmetry. (MG) • perform reflection with respect to a line, including glide reflection, to obtain images of shapes. (MG) 		

Grade 4		
Quarter 4		
Data and Probability (DP)	<ol style="list-style-type: none"> 1. presentation and interpretation of data in tabular form and in a single line graph. 	<ol style="list-style-type: none"> 1. collect data with time element using appropriate sources. 2. present data in a tabular form, or in a single line graph. 3. interpret data presented in a tabular form, or in a single line graph. 4. solve problems using data for at most two variables in a tabular form, or in a single line graph.
Number and Algebra (NA)	<ol style="list-style-type: none"> 2. simple patterns. 3. number sentences. 4. decimal numbers and their relationship to fractions. 	<ol style="list-style-type: none"> 5. describe the rule used to generate a given simple pattern. 6. complete a number sentence: <ol style="list-style-type: none"> a. to represent a property of operations (e.g., $4 + 3 = 3 + \underline{\quad}$) (commutative property of addition) b. to represent equivalent number facts (e.g., $4 + \underline{\quad} = 6 + 3$) 7. represent decimal numbers using models and manipulatives to show the relationship to fractions. 8. read and write decimal numbers with decimal parts to hundredths. 9. determine <ol style="list-style-type: none"> a. the place value to hundredths of a digit in a given decimal number, b. the value of a digit, and c. the digit of number, given its place value. 10. convert decimal numbers to fractions, and fractions with denominators 10 or 100 to decimals. 11. plot decimal numbers with tenth decimal part on the number line. 12. compare and order decimal numbers with decimal parts to hundredths. 13. round decimal numbers to the nearest whole number and to the nearest tenth.
<p>Performance Standards</p> <p><i>By the end of the quarter, the learners are able to ...</i></p> <ul style="list-style-type: none"> • present and interpret data in tabular form and in a single line graph. (DP) • generate a simple pattern and describe the rule used. (NA) • complete number sentences to represent number properties and number facts. (NA) • represent, compare, order, and round decimal numbers. (NA) • convert decimal numbers to fractions and fractions (with denominators 10 or 100) to decimals. (NA) 		