



MATHEMATICS

Grade 5

**Three-Term Budget Of Work (BOW)
for Learning Competencies**

GENERAL MATHEMATICS Grade 5

Three-Term Budget Of Work For Learning Competencies

First Term	
Content Standard	The learners should have knowledge and understanding of... • 12- and 24-hour time, and world time zones • the GMDAS rules for operations with numbers • multiplication of fractions • area of a parallelogram, triangle, and trapezoid • division of fractions • decimal numbers with decimal parts up to ten thousandths
Performance Standard	By the end of the term, the learners are able to... • use 12- and 24- hour time. • compare the time in world time zones with the time in the Philippines. • use the GMDAS rules for 3 or more different operations. • multiply fractions. • determine the area of a parallelogram, triangle, and trapezoid. • divide fractions. • read and write decimals.
Week	Learning Competency
1	Measurement and Geometry • Describe a 12- and 24-hour clock system. • Convert 12-hour time to 24-hour time, and vice-versa. • Solve problems involving 12- and 24-hour time.

2	Measurement and Geometry - Compare the time in different world time zones to the time in the Philippines using a world time zone map. - Solve problems on comparing the time in different world time zones to the time in the Philippines.
3 to 4	Number and Algebra - Perform three or more different operations by applying the GMDAS rules. - Multiply fractions using models. - Multiply a fraction by a fraction.
5	Number and Algebra Solve multi-step problems involving multiplication of fractions that may or may not also involve addition or subtraction of fractions.
6 to 7	Measurement and Geometry - Identify the height of a parallelogram, triangle, and trapezoid, in different orientations. - Find the area of a parallelogram, triangle, and trapezoid, in sq. cm or sq. m, using formulas. - Estimate the areas of triangles and quadrilaterals (parallelogram, rhombus, trapezoid) using grids.
8	Number and Algebra - Divide fractions using models. - Divide a fraction by a fraction.
9	Number and Algebra Solve multi-step problems involving division of fractions that may or may not involve the other operations with fractions.
10	Number and Algebra - Determine: - The place value to thousandths of a digit in a given decimal number

	b. The value of a digit c. The digit of a number, given its place value • Read and write decimal numbers with decimal parts to thousandths.
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Second Term	
Content Standard	The learners should have knowledge and understanding of... • decimal numbers with decimal parts up to ten thousandths • addition and subtraction of decimal numbers • divisibility rules • prime and composite numbers • double bar graphs and double line graphs • theoretical probability
Performance Standard	By the end of the term, the learners are able to... • compare, order, and round decimals to the nearest one thousandth. • add and subtract decimal numbers. • use divisibility rules. • distinguish prime numbers from composite numbers. • identify, construct, and interpret double bar graphs and double line graphs. • draw conclusions and make inferences from data represented in double bar graphs and double line graphs. • calculate theoretical probability.
Week	Learning Competency
1	Number and Algebra • Convert terminating decimals to fractions, and vice versa. • Compare and order decimal numbers with decimal parts to thousandths.
2	Number and Algebra • Round decimal numbers to the nearest thousandths. • Add and subtract decimal numbers with decimal parts of up to 3 decimal places.

3	Number and Algebra Solve multi-step problems involving addition and/or subtraction of decimals, including problems involving money.
4 to 5	Number and Algebra - Use divisibility rules to find common factors of numbers: a. divisibility rules for 2, 5, and 10 b. divisibility rules for 3, 6, and 9 c. divisibility rules for 4, 8, 11, and 12 - Distinguish prime numbers from composite numbers using the Sieve of Eratosthenes.
6	Data and Probability - Collects bivariate data from interview, questionnaire, and other appropriate sources. - Identify the appropriate graph (bar graph or line graph) to represent a given set of data.
7 to 8	Data and Probability - Construct double bar graphs and double line graphs. - Interpret data presented in a double bar graph or a double line graph. - Draw conclusions or make inferences based on data presented in a double bar graph or a double line graph.
9	Data and Probability Solve problems using data presented in a double bar graph or a double line graph.
10	Data and Probability - Describe probability as a measure of the chance of an event occurring. - Calculate the theoretical probability of a simple event by listing all possible outcomes.

Third Term	
Content Standard	The learners should have knowledge and understanding of... • multiplication and division of decimal numbers • GMDAS rules when performing three or more operations with fractions and decimals • prisms and pyramids • surface area of solid figures • cubes and rectangular prisms • resulting image after rotation
Performance Standard	By the end of the term, the learners are able to... • multiply and divide decimal numbers. • apply the GMDAS rules with operations with fractions and decimals. • illustrate and describe solid figures and their nets. • determine the surface area of solid figures. • distinguish between cubes and rectangular prisms, and estimate their volumes. • draw the image of an object after applying rotation about a point
Week	Learning Competency
1 to 2	Number and Algebra • Estimate each of two decimal numbers to the nearest whole number to estimate their product. • Multiply decimal numbers with decimal parts of up to 2 decimal places. • Solve multi-step problems involving multiplication of decimals that may or may not also involve addition or subtraction of decimals, including problems involving money.
3 to 4	Number and Algebra • Estimate the quotient when dividing two decimal numbers by estimating the dividend and divisor to the nearest whole number.

	- Divide: 1- to 2-digit whole numbers resulting in a terminating decimal quotient (e.g., $4 \div 5 = 0.8$) - a decimal of up to 2 decimal places by a 1- to 2-digit whole number, resulting in a terminating decimal quotient of up to 3 decimal places. - Solve multi-step problems involving division of decimals that may or may not also involve the other operations with decimals, including problems involving money.
5	Number and Algebra Perform three or more different operations with fractions and decimals by applying the GMDAS rules.
6	Measurement and Geometry - Illustrate different solid figures using concrete and pictorial models. - Relate plane figures to solid figures using concrete and pictorial models.
7	Measurement and Geometry - Describe and differentiate prisms and pyramids using their vertices, faces, and/or edges. - Illustrate and describe solid figures and their nets.
8	Measurement and Geometry - Make models of solid figures. - Illustrate and find the surface area of solid figures.
9	Measurement and Geometry - Solve problems involving the surface area of solid figures. - Describe and distinguish cubes and rectangular prisms.
10	Measurement and Geometry Estimate the volume of a cube and of a rectangular prism using non-standard units of measurement.

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| | <ul style="list-style-type: none">• Draw the image of an object after applying rotation about a point given an angle of rotation, clockwise or counterclockwise. |
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