



Unit Name and Number	Week No.	Content Headings	Key Sub-Topics / Context / Vocabulary	Projects / Graded Assignments	Question Style for Exam	Justification for Exam Content: Bloom's Taxonomy	Government Objectives
Unit 2. Working with numbers II	1	Decimal	A. Recognizing and identifying decimal places B. Expressing decimals in expanded form	Textbook: pages 117-121 Workbook: pages 63-67	Multiple choice: (read and write decimals; expanded decimals)	<b>Understand</b>	MA 1.1/1 Read and write decimals and expanded form.
		<b>Activities: Ask for volunteers to create decimal numbers or figures representing one-two place decimals on the board, and the rest of the class writes the decimals in words in their notebook.</b>	Vocabulary: decimal; represent; place value; digit value; expanded form; ones; tens; hundreds; thousands; tenths; hundredths	Spelling test (10 points for objectives)	n/a	Students will be able to read and write one-two place decimals and expanded form correctly.	MA 1.1/3 Express a fraction as a decimals and percentage; express a percentage as a fraction and a decimal; express a decimal as a fraction and a percentage.
Unit 2. Working with Numbers II	2	Decimal	C. Comparing and ordering decimals D. Converting decimals	Textbook: pages 125, 130 Workbook: pages 68-71	Multiple choice: (compare, order and convert decimals)	<b>Understand</b>	MA 1.1/2 Compare and order fractions and decimals (up to 2 decimal places).
		<b>Activities: (i) Answer the workbook: Test yourself pages 72-74. (ii) Put students into groups. In groups, students create figures that represent the decimals shown on the board and put those figures in increasing and decreasing order.</b>	Vocabulary: compare; order; equal; more than; less than; increasing; decreasing; convert; decimals; fraction; simplest	Spelling test (10 points for objectives)	n/a	Students will be able to compare, order and arrange decimals in increasing and decreasing order.	



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Unit 2. Working with Numbers II	3	Operations with decimals	A. Addition of decimals B. Subtraction of decimals C. Multiplication of decimals	Textbook: pages 139-140; 146-147; 159-160 Workbook: pages 75-83	Solve the following given problem (addition, subtraction and multiplication)	<b>Understand</b>	MA 1.2/2 Add, subtract, multiply, and divide decimals whose quotients are up to 2 decimal places.
		<b>Activities: Ask each group to think of and discuss real-life situations where the addition, subtraction, and multiplication of 2 place decimal s and create math problems that are related to the situation, they come up with.</b>	Vocabulary: addition; subtraction; multiplication; convert fraction; denominator; multiplicand; multiplier; product	Spelling test (10 points for objectives)	n/a	Students will be able to perform the 3 operation of up to 2 place decimals by whole numbers correctly.	
Unit 2. Working with Numbers II	4	Operations with decimals	D. Solving word problems with decimals E. Creating word problems with decimals	Textbook: pages 164, 167 Workbook: pages 84-88	Solve the following word problem.	<b>Create</b>	MA 1.2/3 Analyze and solve multi-step word problems involving addition, subtraction, multiplication and division of whole numbers and decimals.
		<b>Activities: Each student create their own word problem and exchange to each classmate; Solve and present the solution to the class.</b>	Vocabulary: altogether; total; difference; left; in all; height; capacity	n/a		Students will be able to create word problems with decimals correctly.	



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Unit 2. Working with Numbers II	5	Operations with decimals	F. Solving mixed operations with decimals	Textbook: page 170 Workbook: pages 89-90	Solve the following mixed operations	<b>Analyse</b>	MA 1.2/3 Analyze and solve multi-step word problems involving addition, subtraction, multiplication and division of whole numbers and decimals.
		<b>Activities: Answer the workbook: Test yourself pages 91-94.</b>	Vocabulary: order of operation; bracket; add; subtract; multiply	Spelling test Wk 4-5 (10 points for objectives)		Students will be able to use the order of operation problems with decimals and obtain valid answers.	
Unit 2. Working with Numbers II	6	Number patterns	A. Increasing number patterns B. Decreasing number patterns	Textbook: pages 175-177; 181-183 Workbook: pages 95-102	i. Multiple choice (increasing and decreasing pattern) ii. Find the missing figures to complete the pattern.	<b>Analyse</b>	MA 4.1/1 Complete number patterns and describe the relationships in patterns.
		<b>Activities: Answer the workbook: Test yourself pages 103-105.</b>	Vocabulary: increasing, addition, multiplication; decreasing; subtraction; division; pattern; smaller value	Spelling test (10 points for objectives)	n/a	Students will be able to analyse and explain increasing and decreasing number patterns.	
Unit 3. Data Analysis	7	Statistics	A. Data collection methods B. Understanding bar graph	Textbook: pages 5, 11-14 Workbook: pages 1-7	Study the bar graph and answer the questions.	<b>Apply</b>	MA 5.1/1 Make bar charts with the numerical data axis rescaled.
Unit 3. Data Analysis		<b>Activities: Bring in worksheets about vertical and horizontal clustered bar graph with reduced scales. Students work through the worksheet individually</b>	Vocabulary: collecting data, interview, online data collection, experiment, data classification, lit, bar graph, reduced scales, clustered bar graphs	Spelling test (10 points for objectives)	n/a	Students will be able to collect and classify data correctly. Also, they will be able to apply this knowledge to their real-life situations.	



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Unit 3. Data Analysis	8	Statistics	C. Creating bar graph with reduced scales D. Probability	Textbook: pages 16, 19-20 Workbook: pages 8-9	(i) Study the given information and create bar graph. (ii) Fill in the blanks with the terms "certain, possible, impossible" to make the following statements correct.	<b>Create</b>	MA 5.1/2 Describe events using the following terms: certain, possible and impossible.
		<b>Activities: Put students into group. Each group search online for data that is recorded every year, such as number of population and create a bar graph to present the data.</b>	Vocabulary: creating bar graph, probability, chance, certain, possible, impossible, event	Spelling test (10 points for objectives)  Additional Activity: Workbook: pages 10-14	n/a	Students will be able to create bar graph. Also tells us the chance of an event happening in our real-life situations.	
Midterm Exam	9	A. Decimals B. Operation of decimals C. Number pattern D. Data analysis <b>Activities:</b>					
Christmas holiday	10	<b>Activities:</b>					



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Unit 3. Data Analysis	11	Percentages	A. Understanding percentages	Textbook: pages 24 Workbook: pages 15-16	(i) Shade the following figures to show percentage. (ii) Convert the percentage to fraction and fraction to percentage.	<b>Understand</b>	MA 1.1/3 Express a percentage as a fraction and a decimal; express a decimal as a fraction and a percentage.
		<b>Activities: Write math problems that allow students convert between percentages, fractions and decimals on the board.</b>	Vocabulary: percent; conversion; fraction; decimal; simplest form; equivalent	n/a	n/a	Students will be able to convert between percentages, fractions and decimals correctly.	MA 1.2/1 Add, subtract, multiply and divide fractions.
Unit 3. Data Analysis	12	Percentages	B. Percentages, fractions and decimals C. Mixed operations involving multiplication and division D. Percentage word problems	Textbook: pages 27, 31, 39 Workbook: pages 17-27	Solve the following problem.	<b>Understand</b>	MA 1.2/3 Analyze and solve multi-step word problems involving addition, subtraction, multiplication and division of whole numbers, fractions, decimals and percentages.
		<b>Activities: Answer the workbook: Test yourself pages 28-31.</b>	Vocabulary: profit; sold out; item; cost price; loss; lost; discount; reduction	Spelling test for Wk. 11-12 (10 points for objectives)	(i) Solve the following mixed operation. (ii) Solve the word problem involving percentages.	Students will be able to solve word problems to find the amount of profit and discount and selling price correctly.	



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Unit 5. Measurements	13	Perimeters and areas of triangles	A. Perimeters of triangles B. Areas of triangles	Textbook: pages 106, 110-112 Workbook: pages 69-74	Find the perimeter and area of the following given figures.	<b>Analyse</b>	MA 2.1/2 Find the perimeters of quadrilaterals and triangles.
		<b>Activities: Put students into groups to draw a rectangle that has a width of 4cm and a length of 9cm on paper. In groups, students divide the rectangle into 4 triangles. Each area of the first 2 triangles 10cm. Each area of other 2 triangles 8cm. And explain their workings and solution to the class.</b>	Vocabulary: triangle; perimeter; area; figure; grid; base; height	n/a		Students will be able to find the perimeters and areas of triangles using the formula correctly.	MA 2.1/3 Find the area of a rectangle and a triangle.
Unit 5. Measurements	14	Perimeters and areas of triangles	C. Solving word problems	Textbook: pages 117-118 Workbook: pages 75-80	Solve the following given problem.	<b>Understand</b>	MA 2.2/1 Solve problems involving the area and the perimeter of a rectangle and a triangle.
		<b>Activities: Answer the workbook: Test yourself pages 81-86</b>	Vocabulary: triangular; information; important; solve; calculated	Spelling test Wk. 13-14 (10 points for objectives)		Students will be able to solve problems involving perimeters and areas of triangles in real-life situations.	



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Unit 5. Measurements	15	Perimeters and areas of composite figures	A. Perimeters of composite figures B. Areas of composite figures	Textbook: pages 124, 129-130 Workbook: pages 87-90	Find the perimeter and area of the following composite figures.	<b>Understand</b>	MA 2.1/2 Find the perimeters of quadrilaterals and triangles
		<b>Activities: Each group will draw a composite figure composed of square and rectangles. Encourage students to use their creativity in drawing.</b>	Vocabulary: perimeter; composite; figure; square; rectangle; area; counting; formula; shaded; width; length; square unit	n/a		Students will be able to find the perimeters and areas of squares and rectangles correctly.	MA 2.1/3 Find the area of a rectangle and a triangle.
Unit 5. Measurements	16	Perimeters and areas of composite figures	C. Solving word problems	Textbook: pages 133-134 Workbook: pages 91-94	Solve the following given problem.	<b>Apply</b>	MA 2.2/1 Solve problems involving the area and the perimeter of a rectangle and a triangle.
		<b>Activities: Answer the workbook: Test yourself pages 95-100</b>	Vocabulary: respectively; together; measure	Spelling test Wk. 15-16 (10 points for objectives)		Students will be able to apply the knowledge gained to solve problems in real-life situation effectively.	
Unit 5. Measurements	17	Volume and capacity	A. Finding the volume and capacity of cubes and cuboids	Textbook: pages 142-143 Workbook: pages 101-102	Multiple choice: (Find the volume and capacity of cubes and cuboids).	<b>Understand</b>	MA 2.1/5 Finding the volume/capacity of a cuboid.
		<b>Activities: Students work individually finding real-objects that have cube and cuboid shapes and present their objects to the class, identifying the three dimensions for the class to see.</b>	Vocabulary: volume; capacity; unit; cubic unit; calculate	n/a		Students will be able to identify lengths, widths and heights of cubes and cuboids correctly.	



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Unit 5. Measurements	18	Volume and capacity	B. Solving word problems C. Converting metric units of volume and capacity	Textbook: pages 146, 151 Workbook: pages 103-108	Convert the following unit of measurements.	<b>Understand</b>	MA 2.1/1 Describe the relationships among volume/capacity units.
		<b>Activities: (i) Answer the workbook: Test yourself pages 109-113. (ii) Write math problems about conversions of metric units on the board. Solve the word problems. Refer students to the metric conversion on page 147.</b>	Vocabulary: volume; depth; width; length; height; liter; milliliter; cubic meter, cubic centimeter;	Spelling test: Wk.17-18 (10 points for objectives)		Students will be able to convert between different units of volume and capacity accurately.	
Final Exam	19	A. Percenatges B. Perimeters and areas triangles C. Permiters and areas of composite figures D. Volume and capacity					
		<b>Activities:</b>					
	20	<b>Activities:</b>					