] Graph Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
-		Pre	ighturo		U.12	
		1	Read information from pictograph where one picture	16,17	U.13	
	Pictographs	2	represents one item	100.00	U.76	
1		3	Read information from pictograph where one picture represents more than one item	82,83	U.77	
•		4	Prenare a table from information.	16-2	U.12	
		5	Draw pictograph from information in a table.	1,02		
		6	Read information from bar graph where one bar			M1
		7	represents one item		 	7.72
		8	Read information from bar graph where one bar			M2
		9	represents more than one item	-		
2	Bar graphs	10	Show information on a grid, squared paper or given axis			
		10	by shading the bars.	50	U.44	
		11	Draw a table and a bar graph from information	100		1
		12	Prepare a table from information.			M1
		12	Draw bargraph from information in a table.	-		
		Post				

Grade4

	<u>RM 1</u>	- C	Topics		Learner Outcomes e	sson	ıs
	or Topics		Topics	B01	Read and write numbers up to five-digit numbers in	1	44
1	Number	1	5-digit number		words and figures	i	11
	Concepts 1		Use of Place	102	Identify place values in a four-digit number.	3	
		1 - 1		B02	Identify the place value of any digit in a 5-digit	ł	
				V03	Calculate total value of a three-digit number.	1	
		3	Expanded	HU3	Tell the total value of a digit in a five-digit numeral		
			Notation	BU3	Solve problems involving place value and total		
i							
	,				value.		
				B05	Write a four-digit number in expanded notation.	1	
		4	- · · ·	A04	Identify odd and even numbers.	'	
			Numbers	B06	Identify odd and even numbers.	2	
		5	Number	B08	Complete a given sequence through counting by 2s,	2	
			Sequence		3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 20s, 25s, and 50s.	2	
		6	Approximation	A05	Round off two-digit numbers to nearest 10.	2	
i				B09	Round off a two-digit or a three-digit number to the		l
	ļ	1			nearest 10.]
		1	[B10	Round off a three-digit number to the nearest 10 and		ļ .
					100.		ļ
		7	Roman Number	B11	Write Roman Numerals through 12.	_1_	
2	Whole	11	Addition	A12	Subtract and add a two-digit number without and	4	20
-	Number				with regrouping.		
	Operations			C01	Add sets of numbers up to five-digit numbers.		1
	Operations	2	Subtraction	A12	Subtract and add two-digit numbers without and with	5	1
1		-	Cabilacion		regrouping.		
	3.5	-		C02	Subtract a pair of five-digit numbers.		
١.	1	1		C03	Combine addition and subtraction using brackets.		
	1	3	Multiplication	Δ10	Multiply by a one-digit number.	5]
1		3	Multiplication	C04	Multiply a whole number by 2,3,4,5,6,7,8,9,20,100.		l
·				C05	Multiply a two-digit or three-digit number by another	1	1
ł	1	-		ا	two-digit number.		1
1	1	-	Division ·	Λ11	Divide a one-digit number by a one-digit number.	6	7
Ì		4	DIVISION	C06	Divide by a one digit and by a two-digit number.	1	
F-3	1	+-	Deading and	D01	Read and write sums of money up to \$99,999.99.	1	1
ا ا	Money	1	Reading and	יטטן	Read and write sums of money up to too journey	1	8
			writing sums of			l	
	Ì	<u> </u>	money	1000	Make amounts of money using various combinations	1	1
		2	1 '				1
1	1	-	of coins and notes	1000	of notes and coins. Calculate the total cost of a set of items.	4	1
1	İ	3	Bills	1000	Calculate the total cost of a set of terms. Calculate the total cost of a number of similar items	1 .	
1	1	-		1002			
				L	given the cost of one of them.	1	1
		1		AUS	Give change from a specific amount of money.	1	1
1		<u> </u>		DOS	Calculate change.	1	-
	4 Language associated		D0€	Solve one-step and two-step word problems	1 '	1	
			associated	<u></u>	involving buying and selling.	┨	1
1				D0.	7 Use vocabulary relating to spending.	+-	\dashv
		5		D08	B Filling in deposit and withdraw slips.	1 1	-
			Money form		*G6		
1		- 1	Different Contries	1			

4 Time 1		Reading time and time notation	G01	Tell time on the half-hour. Tell time on the hour, the half hour, the quarter hour, and at five-minute intervals. Write the notation for times above.	3	9
	2	Language associated with	000	Use time vocabulary correctly: 'a.m.', 'p.m.', 'noon', 'midday', 'later', 'now', 'earlier', 'soon', 'dawn'.	2	
		time Addition and subtraction of	G10	Add and subtract time in hours, mins. Calculate duration of an event or the time between	4	
		time		events.		

Eh	RM 2				Learner Outcomes e	ssons	
	r Topics		Topics	101	OLA to multiplication facts to 9x9.	5	13
5 N	lumber	8	Factors and	AU1	Recall the multiplication and division facts for the		
1000	Concepts 2	1	Multiples	B0/	tables 2, 3, 4, 5, 6, 7, 8, 9, 10, instead of reciting		
	01,000				tables 2, 3, 4, 5, 6, 7, 6, 9, 10, instead stress		
				B15	List all the factors of a given number.		
				B12	Explain the concepts of multiples and factors.		
				B13	List sets of multiples to find common multiples of		
					two numerals.	2	
		9	L.C.M.	B14	List the LCM of two numbers.	2	
- 1			H.C.F.		*G5	2	1
			Prime Numbers	B16	Explain the concepts of prime and composite	2	1
			Problem Solving			2	1
_	F lines	1	Concept of	E01	Identify proper fractions, improper fractions, and	2	20
6	Fractions	1	fractions		i - I - umboro		
			Iractions	F02	Explain what is meant by a proper, improper or		
							4
1			O mariagn of	E02	Convert an improper fraction to a mixed number and	4	
-u ^t		2	Comparison of	LUZ	a mixed number to an improper fraction.		
			mixed and				4
			improper fractions	-	Add a pair of simple fractions or mixed numbers	3	
		3	Addition and	EUS	where the denominators are the same.		
			subtraction of		Subtrract a pair of simple fractions or mixed		
			fractions with like	E06	Subtrract a pair of simple fractions of mines		
			denominators.		numbers where the denominators are the same.	2	
		4	Equivalent	E0:	numbers where the denominators are the denominator are the denominators are the denominators are the denominators		
			Fractions		to full time	2	
	× - L	5		E0	Find the LCD of 2 fractions.		
		6		E0	7 Add 2 fractions with unlike but related denominators	4	
		١٠	subtraction with	E0	8 Subtract 2 fractions where the denominators are		
			unlike but related		- Uka but rolated	+	
				1 FO	8 Add or subtract simple fractions using brackets.	+2	-
		7	denominators Multiplication by	FO	9 Multiply a fraction by a whole.	1	
		1	whole numbers	1		+	-
		+		Δ	06 Identify and use unit of measurement for length,	1	1 1
7		1	Length		lmass and canacity (m. cm. q. kg).	4	
	Measuremer	nt		E	11 (a) Estimate lengths of objects in metres or		
				1	tim otors		
					(b) Measure and record lengths of objects in metre	5	
1					The state of the s	A Comment	
		L		+=	or centimeters. O7 Calculate the perimeter of squares, rectangles and		2
			2 Concept of				
			perimeter		other polygons. Calculate the area of squares and rectangles by		3
			3 Concept of area	F	06 Calculate the area of squares and rectangles by		
					using the formula, LxW.		

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	4	Weight/Mass	A06	A06 Identify and use unit of measurement for length,	3
			F02	mass and capacity (m, cm, g, kg). (a) Estimate mass of objects in grams or kilograms.	
				(b) Measure and record the mass of objects in grams and kilograms.	
	5	Capacity	A06	A06 Identify and use unit of measurement for length,	3
		·	F03	mass and capacity (m, cm, g, kg). (a) Estimate the capacity of containers.	
				(b) Measure and record the capacity of containers in milliliters, centiliters or litres.	
				Recall the capacity of certain well-know containers.	
	6	Selection of appropriate units	F05	Select the most appropriate unit of length, mass or capacity for measuring an item.	1
		of measurement		capacity for measuring an item.	

TERM 3

Ma	jor Topics		b Topics		Learner Outcomes	esso	ns
8	Decimals		Concepts of decimals		·	1	12
	,		Place value of decimals	E12	Identify the place value and the total value of digits in a decimal number.	2	
	,	3	Relationship between decimals and common	E10	Write a fraction in decimal form: only fractions with denominator 10.	2	
			fractions	E11	Express a decimal fraction as a common fraction.		
		4	Comparison of decimals		Use the symbols '>', '<' to compare a pair of decimal numbers.	2	
					Write a set of given decimal numbers in order of size.		
	100	5	Ordering decimals	E14	Complete a sequence involving decimal numbers.	1	1
		6	Addition and subtraction of decimals	E13	Add and subtract decimals up to hundredths.	4	
9	Time 2	4	The calendar	G05	Use a calendar to check the number of days in a	5	├
		1			month, the length of time from one date to another		7
					within a given month and from one event to another.		`
		1		G06	Use a calendar to check the number of days within a	1	
					given period, from one month to another within the	ł	
					same year.		ł
				G04	Write dates correctly in both ways.	1	1
					Be aware of conventional methods used in U.S.A.		
		5	Language	G07	State the relationship between 'week and day' 'year	2	i
		1	associated with		and month' 'year and day' ' leap year and day'	-	
			specific periods of	G08	Discuss the terms 'jubilee', 'silver', 'diamond', 'golden	1	
			time.		anniversary', as well as 'millennium', 'century',		
-					'decade', 'centurion'.		
10	Geometry	1	Concept of an	H01	Recognize angles in figures and shapes.	2	12
		1 1	angle	H02	Explain the concept of right angles.	-	
				A07	Differentiate between angles and sides.		
		2	Properties of	H03	Identify the number of sides and angles in two-	6	
			plane shapes		dimension (plane) shapes such as squares,		
					rectangles, triangles, pentagons, hexagons.		
				H04	Explain the concept of radius, radii and diameter of a circle.		
				H05	Identify the center, any radius and diameter of a circle.		

		3	Lines of symmetry		Identify the number of lines of symmetry contained in a plane figure.	1	
		4	Solids	H06	Describe 3-D shapes: cube, cuboid, cone, cylinder, sphere, in terms of number of flat sides, curved sides, edges, vertices.	3	
1	Crooks	1	Collecting data		Sides, Godge, vertex	1	1
11	Graphs	2	Pictographs			2	1
			Bar Graphs	A14	Draw bar graphs from given information.	2	1
			Dai Graphe	101	Read information from a bar graph or a pictograph where one bar or one picture represents one or		
					104 Prepare a table from information in a pictograph, har graph and line graph.		
					I05 Draw pictographs, bar graphs and line graphs from information given in a table. Solve problems using the date presented in a graph.		
		1	t - fline group	Introduce the concept of line graph.	3	1	
		4	Line Graphs	101	Read information from a bar graph or a pictograph where one bar or one picture represents one or more item(s).		
				103	Read information from line graphs.		1
				104	Prepare a table from information in a pictograph, bar graph and line graph.		
				105			
				100	Solve problems using the date presented in a graph.		

[1] Number Concepts 1

h	o Topic	Lesson No.		Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	5-digit number	1	Read and write numbers up to 5-digit numbers in words and figures	8	Ch.1	
_		2	Identify the place value of any digit in a 4-digit number.	7, 8	Ch.1	
_	Use of Place	3	Identify the place value of any digit in a 5-digit number.	7, 8	Ch.1	
2	Value	4	Solve problems involving place value and total value and compare numbers.	8, 9	Ch.1	
3	Expanded Notation	5	Write a 4-digit number in expanded notation using the total value.	7, 8	Ch.1	
4	Odd and Even Numbers	6	Identify odd and even numbers.	26	Ch.5	
5	Number	7	Count by 2s, 5s, 10s, 20s, 25s, 50s.	5, 6, 33	Ch.1 Ch.5	
	Sequence	8	Count by 3s, 4s, 6s, 7s, 8s and 9s.			
6	Approximation	9	Round off a 2-digit or a 3-digit number to the nearest 10.	10	Ch.1	
U	Approximation	10	Round off a 3-digit number to the nearest 100.	10	Ch.1	
7	Roman Number	11	Write Roman Numerals through 12.	11	Ch.1	
		Post	1.			

[2] Whole Number Operations

Sub	Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Addition	1 2	Add a two-digit number without and with regrouping.	52,53,54 55	Ch.9	
'		3	Practice Addition ploblems	57	Ch.9	
		4	Add sets of numbers up to 5-digit numbers.			M1
		5 6	Subtract a 2-digit number without and with regrouping.	58,59,60 61,62		
2	Subtraction	7	Practice Subtraction ploblems	63	Ch.9	
		8	Subtract a pair of 5-digit numbers.			M1
		9	Combine addition and subtraction using brackets.	56		1
		Post				
		10	Multiply a whole number by 2,3,4,5,6,7,8,9	64		
		11	Multiply a whole number by 20,100. Multiply a 2-digit and 3-digit number by another 1-digit number with and without regrouping.	65,66,67		
3	Multiplication	12	Multiply a 2-digit and 3-digit number by another 2-digit number without regrouping.	68	Ch.9	M2
		13	Multiply a 2-digit and 3-digit number by another 3-digit number with regrouping.	68		M2
		14	Practice Multiplication ploblems	69		
,		Post				
		15 16	Divide a 1-digit number by a 1-digit number without remainder. Multiplication and division facts.	70,71,72 73,74		
4	Division	17	Practice Division ploblems	71E,72,73C	01.0	
	DIVISION	18	Divide a 1-digit number by a 1-digit number with remainder.	75	Ch.9	
		19	Divide by a 1-digit and by a 2-digit number without and			MO
		20	with remainder.			M3
		Post				

3] Money			Related	Unit /	- 1:
ub	Topic	Lesson No.	Specific Objective		Chapter Number	Teaching Materials
		Pre	***************************************			
	Reading and writing sums of money	1	Read and write sums of money up to \$99,999.99.	21	Ch.4	
2	Concept of value of coins and	2	Make amounts of money using various combinations of notes and coins.			M1
	notes		Estimate and calculate the total cost of a set of items.	22	Ch.4	
		3	Calculate the total cost of a number of similar items given			M2
0	Dillo	4	the cost of one of them.			
3	Bills	5	Give change from a specific amount of money.			M3
4	Langeuage associated	7	Calculate change. Practice problem solving involving buying and selling. Use vacabulary relating to spending: 'expensive','cheap','current price','reduce','increase','sale','profit','loss','discount','hire purchase','withdrawal','deposit'installment'.	23	Ch.4	G5:P65
5	Banking	8	Filling in deposit and withdraw slips.		-	G3.P63
3	Daliking	Post				

	Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
-1		Pre	the hour and half			
	Reading time and Time notation	1	Tell and write the notation for time on the hour and half			M1
		2 3	Tell and write the notation for time on the hour, the half hour, the quarter hour,and at five-minute intervals.	40,41,43	Ch.7	
2	Language associated with time	4 5	Use time vocabulary correctly: 'a.m.', 'p.m.', 'noon , 'midday', 'later', 'now', 'earlier', 'soon', 'dawn'.	42	Ch.7	
	Addition and	6	Add and subtract time in hours, mins.	44B,45AB	Ch.7	
3	Subtraction of	7 8	Calculate duration of an event or the time between	46A	Ch.7	
	Time	9	events.	10/1		
		Post				

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[5] Number Concepts 2

Sut	э Торіс	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
Г	Factors and Multiples	12	Explain the concepts of multiples and factors.	27, 29	Ch.5	
8		13 14	List all the factors of a given number.	27, 28	Ch.5	
		15 16	List sets of multiples to find common multiples of two numerals.	28, 29	Ch.5	
9	L.C.M.	17 18	List the LCM of two numbers.	30	Ch.5	
10	H.C.F.	19 20	List the H.C.F. of two numbers	31	Ch.5	
11	Prime Numbers	21	Explain the concepts of prime and composite numbers.	32	Ch.5	
	Time radiibeis	22	Find the prime numbers between 1 to 20.	32	Ch.5	
12	Problem Solving		Solve problems involving number concepts.	34, 35	Ch.5	
		Erost.				

[6] Fractions

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Concept of	1	Identify proper fractions, improper fractions, and mixed numbers.	36, 37	Ch.6	
	fractions	2	Explain what is meant by a proper, improper or mixed fraction.	36, 37	Ch.6	
2	Comparison of mixed and	3 4	Convert an improper fraction to a mixed number.			
_	improper fractions	5 6	Convert a mixed number to an improper fraction.			
3	Addition and subtraction of fractions with like denominators.	9	Add a pair of simple fractions or mixed numbers where the denominators are the same.	80, 82, 83	Ch.10	
		HOSE:				
4	Equivalent	10	Explain the sets of equivalent fractions with pictures.	38	Ch.6	
	Fractions	11	Find sets of equivalent fractions for a given fraction.	38	Ch.6	
5	LCD	12	Find the common denominators.	76, 77	Ch.10	
			Find the LCD of 2 fractions with L.C.M.	76, 77, 81	Ch.10	
6	Addition and subtraction with unlike but related denominators		Add 2 fractions with unlike but related denominators.	81	Ch.10	
			Subtract 2 fractions where the denominators are unlike but related.	81	Ch.10	
		18	Add or subtract simple fractions using brackets.			M1
7	Multiplication by whole numbers		Multiply a fraction by a whole number.	84	Ch.10	
		Rost				

] Measureme Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	
		Pre				
	Length	1 2	Estimate, measure and record lengths of objects in metres, centimetres amd kilometres and select the most appropriate unit of length for measuring an item.	47, 48, 49	Ch.8	M1 132, 138
1	Lengui	3	Measure curves using string or thread and a ruler.	50	Ch.8	
		4	Change the units of length.			
')	Concept of	5	Calculate the perimeter of squares and rectangles.	133, 134, 138	Ch.19	132, 138
	perimeter.	6	Calculate the perimeter of other polygones	134	Ch.19	M1 9 132, 138 9 9 19 14 14 20
3		7	Explain the concepts of area.	135	Ch.19	
	Concept of area.	8	Calculate the area of squares and rectangles by using the formula, LxW.	138	Ch.19	
	Control of area.	9	Solve problems of the relationship between area and perimeter.	139	Ch.19	132, 138
4	Weight/Mass	10 11	Estimate, measure and record lengths of objects in grams and kilograms and select the most appropriate unit of mass for measuring an item.	107, 108, 109	Ch.14	M1 132, 138
		12	Change the units of mass.	110, 111	Ch.14	
5	Capacity	13 14	Estimate, measure and record the capacity of containers in mililitres, centilitres or litres and select the most appropriate unit of capacity for measuring an item.	140, 141, 142	Ch.20	
		15	Change the units of capacity. (I to ml. I to cl, cl to ml)	142	Ch.20	
6	Selection of appropriate units	16	Select the most appropriate unit of length, weight / mass and capacity for measuring an item.			M2
		Post				

[8] Decimals

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre			- 0	
1	Concept of decimals	1	Explain the concept of decimals using number line and read and write decimals in words and figures.	102, 103, 104 105	Ch.13	M1
2	Place value of decimals	2 3	Identify the place value and total value of digits in a decimal number up to hundredths.	103, 104, 105	Ch.13	
3	Relationship between decimals and	4	Write a fraction in decimal form: only fractions with denominator 10.	102	Ch.13	
	common fractions	5	Express a decimal number as a common fraction.	102	Ch.13	
4	Comparison of decimals	6	Use the symbols >, < to compare a pair of decimal numbers.	104	Ch.13	
		7	Write a set of given decimal numbers on order of size.	104	Ch.13	
5	Ordering	8	Complete a sequence involving decimal numbers.	104	Ch.13	
	Addition and	9	Write addition and subtract in vertically.	106	Ch.13	
6	subtraction of	10	Add decimals up to hundredths without regrouping.	106	Ch.13	
U	decimals	11	Subtract decimals up to hundredths without regrouping.	106	Ch.13	
		12 Post	Practice problem solving .	106	Ch.13	-

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[9] Time 2

Su	b Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	
 		Pre	Write dates correctly using both and to a constant			
		11	Write dates correctly using both methods 21/05/2003 and 21st May,2003 Be aware of conventional methods used in U.S.A.		Ch.7	
4	1	12 13 14	Use a calendar to check the number of days in a month, the length of time from one date to another within a given	45C,46B	Ch.7	
_	Language associated with	15	State the relationship between 'week and day' 'year and month' 'year and day' ' leap year and day'			G5:P98
וח	specific periods of time.	16	Discuss the terms 'jubilee', 'silver', 'diamond', 'golden anniversary', as well as 'millennium', 'century', 'decade', 'centurion'.			G6:P111
		Post				

[10] Geometry

Su	b Topic	Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
_		Pre				ļ
1	Concept of an angle	1 2	Recognize angles in figures and shapes. Explain the concept of right angles. Differentiate between angles and sides.	91,92,93	Ch.11	
2	1.00%	3	Identify the number of sides in 2-D shapes-squares rectangles, triangles, pentagons, hexagons	94,95	Ch.12	
	Properties of plane shapes	5	Identify the paroperties in terms of sides and angles in 2-D shapes above.	97,98,99 100	Ch.12	
			Identify curves and circles	118,119	Ch.16	
	Lines of		Explain the concept of radius, radii and diameter of a circle.			G6:P79
4	symmetry		Identify the number of lines of symmetry contained in a plane figure.	122, 123,	Ch.17	
		10	identity solids in real life and in diagrams	124	Ch.3	
3	Solids	11	Describe solids - cube,cuboid, cone, cylinder, sphere, in terms of number of flat sides, curved sides, edges, vertices.			
7		Post	Draw and cut out nets of the solids.	19,20	Ch.3	

[11] Graph Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre		12,13,14	Ch.2	
1	Collecting data	1	Collect data in three different ways.	113,114		
<u> </u>	Pictographs	2	Prepare a table from information in a pictograph.	-		-
2		3	Interpret picto graphs Solve problems using the data presented in a pictograph.	115,116	Ch.15	
		-	Introduce the concept of bar graph.	125	Ch.18	
3	Bar graphs	4	Solve problems using the data presented in a bar graph.	126	Ch.18	
1 3	Dai grapiio	5	Solve problems using the data presented in a bar graph.	127	Ch.18 Ch.18 Ch.18	
	Line graphs	6	Introduce the concept of line graph.	128		
4		ine graphs 7 Sol	Solve problems using the data presented in a line graph.	129,131B-1		
		8	Draw line graphs from information given in a table.	129,1310-1	C11.10	
		Post				J