TERM 1

Major Topics		Sub Topics			Learner Outcomes	Lessons	
1	Number Concepts	1	6-digit number	A01	Read, write and expanded whole numbers up to 5-digits.	1	20
				B01	Read and write numbers up to 6-digits in words and figures.		
				A03	Determine the place value of any digit in a 5-digit numeral.		
		2	Use of Place Value	B02	Identify the place value of any digit in a 6-digit number.	2	
		3	Expanded Notation	B03	Determine the total value of a digit in a 6-digit number.	1	
				B04	Write a 6-digit number in expanded form.		
		4	Number Sequences	B07	Complete a given sequence in which terms increase or decrease by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 as well as by 20s, 25s, 50s.	2	
		5	Rouunding off	B10	Round off numbers to the nearest 10, 100 and 1000.	2	
		6	Roman Numbers	B11	Write Roman Numerals 1 through 50	1	
		7	Odd and even numbers	B05	Identify patterns related to addition and multiplication of odd and even numbers.	1	
		8	Prime and Composite Numbers	B09	Identify prime and composite numbers between 1 and 100	2	
		9	Square numbers	B08	Identify square numbers between 0 and 150.	2	
		10	Average	B16	Calculate the average of a set of numbers or scores	2	
		11	Factors	B13	List all the factors of a given number.	2	
				B14	Find the Highest Common Factor of two numbers.		
		12	Multiples	B12	Identify the Least Common Multiple of two or three numbers.	2	
2	Whole Number Operations	1	Addition	C01	Add sets of numbers with up to 5-digits.	2	20
		2	Subtraction	C02	Subtract a pair of 5-digit numbers.	2	
		3	Multiplication	A02	State the multiplication and division tables 2-10.	6	
				B06	State the multiplication and division tables 2 to 12.		
				C03	Multiply a whole number by any single-digit number.		
				C04	Multiply by two-digit numbers.		
				A04	Solve simple problems mentally involving the four operations.		
				C07	Solve 1-step, 2-step and 3-step word problems involving addition, subtraction and division.		
				C08	Interpret and solve mixed operations with and without brackets.		
				C09	Interpret terms such as 'sum', 'total', 'altogether', 'in all', 'less then', 'more than', 'times', 'share equally', 'increase', 'ratio', 'difference', 'each', 'same as','twice' etc. in context.		
		4	Division	C05	Divide a whole number by any single-digit number with and without remainder	8	
				C06	Divide a whole number by a 2-digit number with and without remainder		
				A04	Solve simple problems mentally involving the four operations		
				C07	Solve 1-step, 2-step and 3-step word problems involving addition, subtraction and division		

				C08	Interpret and solve mixed operations with and without brackets		
		5	Language associated with the four basic operations	C09	Interpret terms such as 'sum', 'total', 'altogether', 'in all', 'less then','more than', 'times', 'share equally', 'increase', 'ratio', 'difference', 'each', 'same as',' twice' etc. in context	2	
3	Money	1	Reading and writing sums of money	D01	Read and write sums of money up to one million	2	8
		2	Concept of value of coins and notes	D02	Make amounts of money using various combinations of notes and bills		
		3	Bills	D03	Calculate the total cost of a set of items where each item costs a different amount of money	5	
				D04	Calculate the total cost of a number of similar items given the cost of one item		
				D05	Make bills and calculate change		
				D06	Calculate profit or loss made on a selling/buying transaction		
		4	Language associated with money	D07	Solve 1-step, 2-step,3-step word problems involving buying and selling	1	
				D08	Use vocabulary relating to spending: 'expensive', 'cheap','reasonable', 'current price','reduced', 'sale','discount', 'hire-purchase','down-payment', 'profit', 'loss', 'bargain', 'increase','decrease',		

TERM 2

Major Topics		Sub Topics			Learner Outcomes	Lessons	
4	Fractions	1	Type of fraction	E01	Convert an improper fraction to a mixed number and a mixed number to an improper fraction.	6	20
				E02	Write an equivalent fraction for a given fraction.		
				A07	Identify simple fractions both in numeral and pictorial form.		
				E03	Express a simple fraction in lowest terms (simplest form).		
				E04	Arrange fractions in ascending and descending order.		
				B15	Find the Least Common Denominator of two fractions where the denominators are unlike but related.		
		2	Addition of fractions	E05	Add a pair of fractions with and without regrouping where: (a) the denominators are the same or related. (b) the denominators are related.	3	
		3	Subtraction of fractions	E06	Subtract a pair of fractions without regrouping where: (a) the denominators are the same or related.	3	
		4	Multiplication	E07	Multiply a whole number by a fraction	4	
				E08	Multiply a fraction by another fraction with and without canceling		
				E09	Multiply a mixed number by a fraction; a mixed number by another mixed number		
		5	Division	E10	Divide a fraction by a whole number	2	
		6	Problem Solving	E11	Solve problems involving addition, subtraction and multiplication of fractions	2	
5	Geometry	1	Properties of plane shapes	A06	Identify and name plane figures and solids	4	8
				H01	Identify the number of sides and angles in 2-dimensional shapes		

				H02	Identify the centre, the radius, the diameter of a circle and circumference of a circle		
		2	Lines of symmetry		Identify lines of symmetry in a plane figure.	1	
		3	Solids	A06	Identify and name plane figures and solids	3	
				H03	Describe 3-dimensional shapes cube, cuboid, sphere, cone and cylinder in terms of the number of flat faces, curved faces, edges and vertices		
6	Measurement	1	Length	A05	Use rulers to measure objects and lines accurately.	4	18
				F01	Measure, record and estimate lengths of objects in metres, centimetres, millimetres.		
				F02	Apply the measures: miles, yards, feet, inches in everyday situations.		
					Converting between units (cm to m, m to km)		
		2	Distance		Finding distance on map	1	
		3	Perimeter	F10	Calculate the perimeter of squares, rectangles and other polygons made from squares and rectangles	2	
		4	Area	F09	Calculate the area of squares, rectangles and other polygons made from squares and rectangles	3	
		5	Weight/Mass	F03	Measure, record, estimate the mass of objects in gramsand kilograms.	4	
					Add and subtrace the mass of objects		
				F04	Apply the measures of pounds and ounces in everyday situations.		
		6	Capacity	F05	Measure, record and estimate the capacity of containers in litres and mililitres	3	
				F06	Apply the measures of gallons, quarts and pints to everyday situations		
		7	Select of appropriate units of measurement	F07	Recall the measures of certain well-known items	1	
				F08	Select the most appropriate unit of length, mass and capacity for measuring an item		

TERM 3

Major Topics		Sub Topics			Learner Outcomes	Lessons	
7	Declimals	1	Concept of Decimals	E12	Read and write decimal numbers	6	16
				E14	Express a common fraction as a decimal (tenths and hundredths only)		
				E13	Determine the value of any digit in a decimal number		
		2	Addition, Subtraction and multiplication of	E15	Add a set of decimals	10	
				E16	Subtract a pair of decimal numbers		
				E17	Multiply a decimal by a 2-digit number		
8	Time	1	Reading Time and time notation	A08	Tell time on the hour, half hour and quarter-hour	5	12
				G01	Tell time on the hour, half-hour, quarter-hour, five minute and one-minute intervals		
				G02	Write the notation for the times		
		2	Language associated with Time	G03	Use Time vocabulary correctly 'a.m.', 'p.m.', 'noon', 'midday', 'midnight', 'leap year', 'fortnight', 'annual', 'biennial', 'decade', 'century', 'millenium', 'centurion'	3	
				G07	Express time using the 24-hours clock vocabulary 1:00 p.m. is 13 hours NOT 13 hundred hours as it is sometimes called		
		3	Addition and Subtraction of time	G08	Add and subtract times in hours and minutes	2	
				G09	Use the examples above to solve problems involving duration of event, starting time an finishing time of an event		
		4	Calendar	G04	Write dates correctly	2	
				G05	Use a calendar to check length of time between any two given times		

				G06	State the relationship between: (a) week and day (b) year and month (c) year and week (d) year and day		
9	Ratio, Proportion, Rate,Unequal Sharing ?	1	Ratio	J01	Compare 2 or 3 quantities using ratio notation	6	8
				J03	Calculate an equivalent ratio given the base ratio		
				J02	Express a given ratio in its simplest form		
		2	Problem Solving			2	
*	Percentage				*G6		
10	Graphs	1	Interpreting Date	I01	Read information from a bar-graph or a pictograph where one bar or one picture represents one or more item(s).	7	8
				I03	Interpret information presented in a table		
				I04	Collect and present date in a tabular form		
				I02	Solve problems using the date presented in a graph		
		2	Average	B16	Calculate the average of a set of numbers or scores	1	
		3	Pie Graph		*G6		

[1] Number Concepts

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	6-digit number	1	Read and write numbers up to 6-digits in words and figures.	6	Ch.1	
2	Use of Place Value	2	Identify the place value of any digit in a 6-digit number.	5	Ch.1	
		3	Calculate the total value of a digit in a 6-digit number.	5	Ch.1	
3	Expanded Notation	4	Write a 6-digit number in expanded form.	6	Ch.1	
4	Number Sequences	5	Complete a given sequence in which terms increase by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 as well as by 20s, 25s, 50s.	7, 13	Ch.1 Ch.2	
		6	Complete a given sequence in which terms decrease by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 as well as by 20s, 25s,	7, 13	Ch.1 Ch.2	
5	Approximation	7	Round off numbers to the nearest 10 and 100.	8	Ch.1	
		8	Round off numbers to the nearest 1000.	8	Ch.1	
6	Roman Numbers	9	Write Roman Numerals 1 through 50	9	Ch.1	
		Post				
		Pre				
7	Odd and even numbers	10	Identify patterns related to addition and multiplication of odd and even numbers.			
8	Prime and Composite Numbers	11	Identify prime and composite numbers between 1 and 50	11	Ch.2	
		12	Identify prime and composite numbers between 1 and 100	11	Ch.2	
9	Square numbers	13	Explain the concept of square number.			M1
		14	Identify square numbers between 0 and 150.			
10	Average	15	Explain the concepts of average.	111	Ch.15	
		16	Calculate the average of sets of numbers or scores.	111	Ch.15	
11	Factors	17	List all the factors of a given number.	10	Ch.2	
		18	Find the Highest Common Factor of two numbers.	10	Ch.2	
12	Multiples	19	Identify the Least Common Multiple of two numbers.	12	Ch.2	
		20	Identify the Least Common Multiple of three numbers.	12	Ch.2	
		Post				

[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		14	Ch.3	
1	Addition	1	Add sets of numbers with up to 5-digits.	15		
		2	Practice Addition ploblems	16	Ch.3	
2	Subtraction	3	Subtract a pair of 5-digit numbers.	17		
		4	Practice Subtraction ploblems			
3	Multiplication	5	State the multiplication tables 0-9	18	Ch.3	
		6	Dmultiply a whole number by any 1-digit number.			
		7	Practice Multiplication ploblems	19		
		8				
		9	Multiply a 2 or 3-digit number by another 2-digit number.	20		
		10				
		Post				
		Pre				
4	Division	11	Divide a whole number by any 1-digit number with and without remainder	21	Ch.3	
		12	Divide by 10 and 100.	22		M1
		13	Divide a whole number by a 2-digit number without remainder.			
		14	Divide a whole number by a 2-digit number with remainder	23		M1
		15				
		16	Interpret and solve mixed operations with and without brackets			M2
		17		21C,23B		
		18	Practice Division problems			
5	Language associated with the four basic operations	19 20	Solve simple problems mentally involving the four operations. Solve 1-step, 2-step and 3-step word problems involving addition, subtraction, multiplication and division. Interpret terms such as 'sum', 'total', 'altogether', 'in all', 'less then', 'more than', 'times', 'share equally', 'increase', 'ratio', 'difference', 'each', 'same as',' twice' etc. in context.	24	Ch.3	
		Post				

[3] Money

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Reading and writing sums of money	1	Read and write sums of money up to one million	64	Ch.9	
2	Concept of value of coins and notes	2	Make amounts of money using various combinations of notes and bills	64	Ch.9	
3	Bills	3	Calculate the total cost of a set of items where each item costs a different amount of money			M1
		4	Calculate the total cost of a number of similar items given the cost of one item	66 second A	Ch.9	M1
		5	Make bills and calculate change			M1
		6	Calculate profit or loss made on a selling/buying transaction			M1
		7				M2
4	Language associated	8	Practice problem solving involving buying and selling. Use vocabulary relating to spending: 'expensive', 'cheap','reasonable', 'current price','reduced', 'sale','discount', 'hire-purchase','down-payment', 'profit', 'loss', 'bargain', 'increase','decrease', 'reduction'	65,67	Ch.9	
		Post				

[4] Fractions

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Type of Fractions.	1	Convert an improper fraction to a mixed numbber.	26	Ch.4	
		2	Convert a mixed number to an improper fraction.	26	Ch.4	
		3	Write an equivalent fraction for a given fraction.	27	Ch.4	
		4	Express a simple fraction in lowest terms (simplest form).	27	Ch.4	
		5	Arrange fractions in ascending and descending order.			
		6	Find the L.C.D. of two fractions where the denominators are unlike but related.			
2	Addition of fractions	7	Add a pair of fractions with and without regrouping where denominators are the same or related.	28, 29	Ch.5	
		8	Add a pair of fractions with and without regrouping where denominators are not the same.	28, 29	Ch.5	
		9	Solve problem involving addition of fractions.	28, 29	Ch.5	
3	Subtraction of fractions	10	Subtract a pair of fractions with and without regrouping where denominators are the same or related.	28, 29	Ch.5	
		11	Subtract a pair of fractions with and without regrouping where denominators are not related.	28, 29	Ch.5	
		12	Solve problem involving subtraction of fractions.	28, 29	Ch.5	
		Post				
4	Multiplication	13	Multiply a whole number by a fraction.	30	Ch.5	
		14	Multiply a fraction by another fraction with and without cancelling.	30, 31	Ch.5	
		15	Multiply a mixed number by a fraction.	30, 31	Ch.5	
		16	Multiply a mixed number by another mixed number.	30, 31	Ch.5	
5	Division	17 18	Divide a fraction by a whole number.	32	Ch.5	
6	Problem Solving	19	Solve problems involving multiplication of fractions.	32	Ch.5	
		20	Solve problems involving fractions.	33	Ch.5	
		Post				

[5] Geometry

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Properties of plane shapes	1 2	Identify the properties in terms of sides and angles in 2-D shapes - squares rectangles, triangles, pentagons, hexagons	70,71	Ch.10	G4:P95
		3 4	Identify the center, the radius, the diameter of a circle and circumference of a circle.	74,75	Ch.10	G6:P79
3	Lines of symmetry	5	Identify the number of lines of symmetry contained in a plane figure	76	Ch.10	
2	Solids	6 7	Describe solids - cube,cuboid, sphere, cone, cylinder, in terms of number of flat sides, curved sides, edges, vertices	77,78,79	Ch.11	
		8	Draw and cut out nets of the solids.	80,81	Ch.11	
		Post				

[6] Measurements

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre		84	Ch.12	
1	Length	1	Use rulers to measure objects and lines accurately.	83, 84, 85	Ch.12	
		2	Measure, record and estimate lengths of objects in metres, centimetres, millimetres and Select the most appropriate unit of length for measuring an item.			M1
		3	Apply the measures: miles, yards, feet, inches in everyday situations.	86	Ch.12	M1
		4	Change the units of length.	87, 88	Ch.12	M2
2	Distance	5	Find the distance on maps	95	Ch.12	
3	Perimeter	6	Calculate the perimeter of squares and rectangles	95	Ch.12	
		7	Calculate the perimeter of other polygons made from squares and rectangles.	96	Ch.12	
4	Area	8	Calculate the area of squares and rectangles.	96, 97	Ch.12	
		9	Calculate the area of other polygons made from squares and rectangles	95, 96, 97	Ch.12	
		10	Solve problems of the relationship between area and perimeter.			
		Post				
5	Weight/Mass	11	Measure, record, estimate the mass of objects in grams and kilograms and select the most appropriate units of mass for measuring an item.	90	Ch.12	
		12	Add and subtract the mass of objects	91	Ch.12	M1
		13	Apply the measures pounds and ounces in everyday situations.			M1
		14	Change the units of mass.	90	Ch.12	
6	Capacity	15	Measure, record and estimate the capacity of containers in litres and mililitres and select the most appropriate units of capacity for measuring an item.	92	Ch.12	
		16	Apply the measures gallons, quarts and pints to everyday situations			M1
		17	Change the units of capacity.	92	Ch.12	M1
7	Selection of appropriate units	18	Select the most appropriate unit of length, weight / mass and capacity for measuring an item.			M3
		Post				

[7] Decimals

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 Decimals	1	Read and write decimal numbers.			
		2	Determine the value of any digit in a decimal number.	34	Ch.6	
		3	Express a common fraction as a decimal (tenths only)	34, 41	Ch.6	
		4	Express a common fraction as a decimal (tenths and hundredths only)	39, 40, 41	Ch.6	
		5	Express a decimal as a common fraction.	39, 40, 41	Ch.6	
		6				
2	Addition, Subtraction and multiplication of decimals	7	Add sets of decimals without regrouping.	39, 40, 41	Ch.6	
		8	Add sets of decimals with regrouping.	42, 46	Ch.6	
		9		44, 46	Ch.6	
		10	Subtract sets of decimals without regrouping.			
		11	Subtract sets of decimals with regrouping.	42, 46	Ch.6	
		12		45, 46	Ch.6	
		13	Multiply a decimal by 10, 100 and 1000.	48	Ch.6	
		14	Multply a decimal by a 1-digit number.	49	Ch.6	
		15	Multiply a decimal by a 2-digit number.		Ch.6	
		16	Practice problem solving.	43, 47	Ch.6	
		Post				

[8] Time

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Reading time and Time notation	1	Tell and write the notation for time on the hour, half-hour, quarter-hour and five-minute interbals.			
		2				
		3	Tell and write the notation for time on the hour, half-hour, quarter-hour five-minute and one-minute intervals			M1
		4				G4:P44 M1
		5	Game			M2
2	Language associated with time	6	Use Time vocablary correctly 'a.m.','p.m.', 'noon', 'midday', 'midnight'	98A-4	Ch.13	
		7	Express time using the vocablary "international time"or"24-hours clock time".	99	Ch.13	
		8				
3	Addition and Subtraction of Time	9	Add and subtract times in hours and minutes			
		10	Use addition and subtraction to solve problems involving duration of event, starting time an finishing time of an event.	98A-1,100A	Ch.13	
4	The Calendar	11	Write dates correctly using both methods 21/05/2003 and 21st May, 2003. Use a calendar to check length of time between any two given times	100BC	Ch.13	
		12	State the relationship between: 'week and day','year and month','year and week','year and day' Use Time vocabulary correctly 'leap year', 'fortnight', 'annual', 'biennial', 'decade', 'century', 'millenium', 'centurion'	98A-3	Ch.13	G6:P111
		Post				

[9] Ratio and Proportion

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
1	Ratio	1	Explain the concepts of ratio.	58	Ch.8	
		2	Compare 2 or 3 quantities using ratio notation.	59, 60	Ch.8	
		3	Express a ratio as a fraction and fraction as a ratio.	61	Ch.8	M1
		4	Express a ratio in its simplest form.	61	Ch.8	
		5	Calculate an equivalent ratio given the base ratio.	61	Ch.8	
		6				
2	Problem Solving	7	Practice problem solving.	60, 62	Ch.8	
		8				
		Post				

[10] Graph

Sub Topic		Lesson No.	Specific Objective of the plan	Related Pages in the Math Text Book	Unit / Chapter Number	Teaching Materials
		Pre				
1	Interpreting data -Pictograph -Bargraph -Linegraph	1	Collect and present data in a tabular form.	103, 104, 105	Ch.15	
		2				
		3	Draw bar graph from information given in a table.	106	Ch.15	
		4	Read information from a bar graph where one bar represents one or more item(s).	107	Ch.15	
		5	Solve problems using the data presented in a graph.	108	Ch.15	
		6	Interpret information presented in a table or a graph.	110	Ch.15	
		7				
2	Average	8	Calcuate the average of a set of numbers or scores.	111	Ch.15	
		Post				

Grade6

TERM 1

Major Topics		Sub Topics			Learner Outcomes	Lessons	
1	Number Concepts	1	Read and write a number	B01	Read and write up to 7-digit numbers; use expressions 'half a million', 'quarter million', '3-quarter million'.	1	17
		2	Expanded Notation	B02	Identify the place value of any digit in a 7-digit number.	2	
				B03	Determine the total value or any digit in a 7-digit number.		
				A01	Read, write and expand 6-digit numbers.		
				B04	Write a number in expanded form.		
		3	Number Sequence	B05	Identify patterns involving operations on odd and even numbers.	1	
				B13	Complete a given sequence in which terms increase or decrease by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 as well as by 20s, 25s, 50s.		
				B14	Complete a given sequence based on an implied number operation or description of numbers.		
		4	Round off	B15	Round off numbers to the nearest 10, 100, 1000.	1	
		5	Roman Number	B16	Write Roman Numerals 1 through 50.	1	
		6	Prime and Composite numbers	B06	Recognize the prime and composite numbers between 1 and 100	3	
				B07	Write the prime factorization of any 2-digit number		
				B17	Express whole numbers and product of their factors using indices		
				B08	Distinguish between prime and composite numbers		
		7	Square Number	B12	Identify square numbers and their square root (square numbers between 0 and 150).	2	
		8	Average	B18	Calculate the average of a set of numbers or scores.	2	
				C07	Calculate the midpoint between two whole numbers where the midpoint is a whole number.		
				B19	Find the total when the average and number of items are given.		
				B20	Find the missing number when average and some numbers are given.		
				B21	Find the new average when a number is added or subtracted.		
		9	H.C.F.	B09	Identify the Highest Common Factor of a pair of numbers	2	
		10	L.C.M.	B10	Identify the Least Common Multiple of a set of numbers	2	
2	Whole Number Operations	1	Addition	C01	Add sets of whole numbers.	2	11
		2	Subtraction	C02	Subtract a pair of whole number.	2	
		3	Multiplication	B11	Recite multiplication and division of tables up to 12.	2	
				C03	Multiply by a 2-digit number.		
				A02	State the multiplication and division facts for tables up to 9.		
		4	Division	C04	Divide a whole number by: (a) a 1-digit number. (b) a 2-digit number with and without remainder.	2	
		5	Problem Solving BOMDAS	A03	Solve simple problems mentally involving the four operations.	3	