



SCHEME OF WORK FOR P.4 MATHEMATICS TERM ONE

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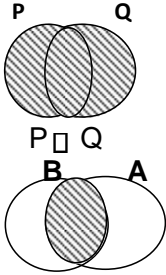
WK	PD	TOPIC	SUB TOPIC	CONTENT	SUBJECT COMPETECIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF
1	1	S E T C O N C E P T	Revision of sets	- Revision of sets; Definition of: - (a) Set (b) Elements - Naming sets - Counting number members in a set	<ul style="list-style-type: none"> ▪ Group objects of a set. ▪ Draws objects. ▪ Identifies sets. 	<ul style="list-style-type: none"> ▪ Defines a set. ▪ Elements of sets. 	Guided discussion Demonstration Illustration Explanation	<ul style="list-style-type: none"> ▪ Critical thinking ▪ Effective communication. ▪ Creative thinking. 	Real objects coins, tins, pens, books, charts etc.	-Grouping -Drawing -Counting -Oral discussion	A new MK primary MTC book 4 pg 1.
	2		Listing elements of sets	listing elements of a set		<ul style="list-style-type: none"> ▪ Uses the number of elements 					
	3		Finding the number of elements	symbol of number of elements is " n " e.g n(A) means number of elements in set A	<ul style="list-style-type: none"> ▪ Listing of members in a set ▪ Writes symbol correctly 						
	4		Types of sets	Types of sets <ul style="list-style-type: none"> ▪ Empty/Null set ▪ Equivalent and non-equivalent sets. ▪ Equal and unequal sets. ▪ Equivalent and non equivalent 	<ul style="list-style-type: none"> • States examples of different types of sets. • Identifies types of sets. 	<ul style="list-style-type: none"> • Defines the types of sets. • Names the different types of sets. • Give oral examples of empty 	Demonstration Explanation	<ul style="list-style-type: none"> ▪ Creative thinking. ▪ Effective communication ▪ Critical thinking 	<ul style="list-style-type: none"> ▪ Real objects ▪ A chart 	-Matching - Drawing - Naming sets - Listing members.	New MK primary MTC book 4 pg 1-5
	5										

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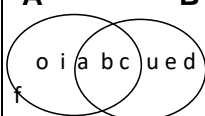
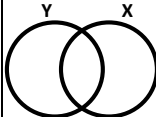
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					sets						
	6		Intersection of sets	<ul style="list-style-type: none"> Symbol for intersection. Listing members in the intersection. Number of elements in the intersection set. 	<ul style="list-style-type: none"> Writes the symbol for intersection. Shades the intersection. Lists members. 	<ul style="list-style-type: none"> Defines intersection sets. 	Illustration Demonstration Guided discussion.	Creative thinking Logical thinking	Real objects. A chart showing intersection part.	<ul style="list-style-type: none"> -Drawing and shading. - Listing members in the intersection. 	MK primary MTC book 4 pg 9 - 11
2	1		Union and intersection of sets	<ul style="list-style-type: none"> Symbol for union. Listing of members in the union set. Number of elements in the union set. 	<ul style="list-style-type: none"> Writes the symbols for union sets. Lists members in the union set. 	<ul style="list-style-type: none"> Defines a union set. Describes the shaded regions. 	-Think pair share. - Guided discussion. - Demonstration	<ul style="list-style-type: none"> Decision making. Effective communication creativity 	<ul style="list-style-type: none"> Real objects A chart 	<ul style="list-style-type: none"> -Drawing and shading. - Listing members in the union 	MK Pri MTC bk. 4 pg. 13 - 15

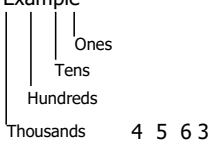
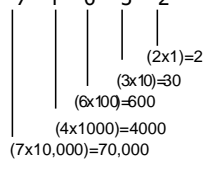
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2 3 & 4	S E T S C O N C E P T	Shading venn diagrams	<ul style="list-style-type: none"> ▪ Definition of Venn diagrams ▪ Venn diagrams for union, intersection, difference of sets and complements 	<ul style="list-style-type: none"> ▪ Defines venn diagram ▪ Interprets the concept of the difference of sets. ▪ Shades the regions. ▪ Draws the shaded regions. 	<ul style="list-style-type: none"> ▪ Draws venn diagrams well ▪ Describes the shaded parts. 	<ul style="list-style-type: none"> ▪ Guided discussion ▪ Demonstration ▪ Discovery ▪ Illustration 	<ul style="list-style-type: none"> ▪ Effective communication. ▪ Critical thinking. ▪ Creativity 	<ul style="list-style-type: none"> ▪ Real objects. ▪ Well designed chart 	<ul style="list-style-type: none"> ▪ Drawing ▪ Shading 	New MK primary MTC book 4 page 13-15
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			$A \cap B$							
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5	6	&	7	Application of Venn	<p><u>Example</u></p>  <p>List the members of</p> <p>i) Set A ii) Set B iii) A ∩ B iv) A - B v) B - A</p> <p>Given; X = { 1,2,3,4,5}, Y = {0,2,4,6}</p> <p>a) Represent the above sets on venn diagram.</p> 	<ul style="list-style-type: none"> Lists members of a given region of venn diagram Finds the number of elements 	<ul style="list-style-type: none"> Draws venn diagrams Identifies the different regions of the venn diagram Counts the number of members Represents given sets on venn diagrams 	<ul style="list-style-type: none"> Guided discussion. Demonstration. Discovery. 	<ul style="list-style-type: none"> Creativity. Effective communication. Critical thinking. 	<ul style="list-style-type: none"> Real objects A well designed chart 	<ul style="list-style-type: none"> Listing Drawing Counting 	New MK Primary MTC bk 4 pg. 21
				3	1	W H	Place values	<p>Reading and counting numbers</p> <p>Place values.</p>	<ul style="list-style-type: none"> Identifies the place values. Writes the 	<ul style="list-style-type: none"> Read the place values in 	<ul style="list-style-type: none"> Guided discussion. Group 	<ul style="list-style-type: none"> Creative thinking.

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	O L E N U M B E R S		(a) In words. (b) In figures. Example 	place values.	<input type="checkbox"/> words and in figures. Counts in tens from 10-200 <input type="checkbox"/> Names place values from ones to millions <input type="checkbox"/> Reading values in words.	illustration .	<ul style="list-style-type: none"> ▪ Effective communication. ▪ Decision making. 	chart.	values. <input type="checkbox"/> Writing place values.	Primary MTC book 4 pg 19 – 20.								
2		Values of digits in numbers.	Values of digits in numbers. Example 1 What is the value of each in the number <table style="margin-left: auto; margin-right: auto;"> <tr> <td>Tth</td><td>Th</td><td>H</td><td>T</td><td>O</td> </tr> <tr> <td>7</td><td>4</td><td>6</td><td>3</td><td>2</td> </tr> </table> 	Tth	Th	H	T	O	7	4	6	3	2	<input type="checkbox"/> Identifies the place values of digits. <input type="checkbox"/> Writes the place values on each digit. <input type="checkbox"/> Multiplies digits by their place values. <input type="checkbox"/> Writes the values.	<ul style="list-style-type: none"> ▪ Guided discovery ▪ Demonstration. ▪ Illustration . 	<ul style="list-style-type: none"> ▪ Creative thinking. ▪ Effective communication. ▪ Discussion making. 	<ul style="list-style-type: none"> ▪ Place value chart. ▪ Abacus. 	<ul style="list-style-type: none"> ▪ Identifying place values. ▪ Multiplying of digits by P.V. ▪ Writing value
Tth	Th	H	T	O														
7	4	6	3	2														

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3	Application of place values and values	<ul style="list-style-type: none"> Finding the sum and difference of; <ul style="list-style-type: none"> - place value to place value - value to value - place value to value 	<ul style="list-style-type: none"> Finds the sum of place to place value, value to value, and place value to value Works out the difference between place value and place value, value and value, 	<ul style="list-style-type: none"> Reads place value and value correctly Writes place values 					s.	
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				place value and value							
4	Writing in words	<ul style="list-style-type: none"> Writing words in figures. Writing figures in words. 	<ul style="list-style-type: none"> Writes figures in words. Writes words in figures. 	<ul style="list-style-type: none"> Reads figures correctly. Reads words correctly. 	<ul style="list-style-type: none"> Explanation Guided discovery Discussion 	<ul style="list-style-type: none"> Effective communication. Creative thinking. Logical reasoning. 	<ul style="list-style-type: none"> Place value chart. abacus 	-Writing -Reading - Arranging digits.	New MK primary MTC bk 4 pgs. 22-23		
5	writing in figures										
6	Expanding of numbers	<ul style="list-style-type: none"> Expanding of numbers Using place values Using values. 	<ul style="list-style-type: none"> Identifies place value. Writes the values. Writes in expanded form. 	<ul style="list-style-type: none"> Reads the place values. Reads the values. 	<ul style="list-style-type: none"> Illustration Discovery Group work 	<ul style="list-style-type: none"> Effective communication. Logical thinking Decision making 	<ul style="list-style-type: none"> A place value chart. abacus 	Identifying values. - Writing values. - Expanding numbers.	New MK primary MTC bk 4 pg 21.		

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	7	Finding Expanded numbers	What number has been expanded (7×1000) + (4×100) + (3×10) + (8×1)	<ul style="list-style-type: none"> Multiplies the numbers correctly. Adds the numbers. Identifies the expanded number. 	<ul style="list-style-type: none"> Reads the figures. Reads the expanded number. 	<ul style="list-style-type: none"> Guided discovery. Group work. Illustration 	<ul style="list-style-type: none"> Effective communication. Logical reasoning. 	<ul style="list-style-type: none"> Place value chart. abacus 	<ul style="list-style-type: none"> Multiplying -Adding -Identifying 	New MK primary MTC book 4 pg 24
4	1	Forming numbers using digits (digit 0 concept)	Form up to 5 digit numbers	<ul style="list-style-type: none"> uses digits to form numbers solves application involving formation of numbers using digits 	<ul style="list-style-type: none"> identifies smallest and largest numbers formed 					

	2	Rounding off of whole numbers	<ul style="list-style-type: none"> Rounding off whole numbers upto thousands 	<ul style="list-style-type: none"> Mentions the meaning of approximate. Rounds off numbers to the nearest tens, hundreds, thousands. 	<ul style="list-style-type: none"> Mentions the meaning of approximate Reads the number given. 	<ul style="list-style-type: none"> Discovery Discussion Illustration 	<ul style="list-style-type: none"> Logical thinking. Critical thinking. Effective communication. 	<ul style="list-style-type: none"> Place value chart. abacus 	<ul style="list-style-type: none"> Rounding off to the nearest tens / hundreds. 	New MK primary MTC bk 5 pages 54 - 55
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5	3	Decimals	<ul style="list-style-type: none"> changing fractions of denominator 10, 100, and 1000 to decimals changing decimals to common fractions place value of decimals fractions place value of decimals decimals values of decimals writing decimals in words vice versa 	<ul style="list-style-type: none"> changes common fractions to decimals changes decimals to common fractions writes place values of decimals correctly 	<ul style="list-style-type: none"> reads decimals spells the place values 	<ul style="list-style-type: none"> guide discussion think pair share discovery 	<ul style="list-style-type: none"> Logical thinking. Critical thinking. Effective communication. 												
	4										Roman numerals	<ul style="list-style-type: none"> Basic roman numerals. Roman numerals got by repeating 	<ul style="list-style-type: none"> Identifies roman numerals. Adds the 	<ul style="list-style-type: none"> Recites the roman numerals. Mentions 	<ul style="list-style-type: none"> Explanation Discussion Discovery. 	<ul style="list-style-type: none"> Creative thinking. Problem solving. 	<ul style="list-style-type: none"> Chart showing roman numerals. 	-Reciting the roman numerals.	New MK Primary MTC bk
	1																		

			<ul style="list-style-type: none"> I, X, C Roman numerals got by adding subtracting. 	<ul style="list-style-type: none"> Roman numerals. Subtracts the Roman numerals. 	the roman numerals obtained.		<ul style="list-style-type: none"> Logical thinking. 				4 pg 33
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5	Roman numerals	<ul style="list-style-type: none"> ▪ Changing from Hindu Arabic numerals to Roman numerals. ▪ Changing from Roman numerals to Hindu Arabic numerals. Word problems about Roman and Hindu Arabic numerals. 	<ul style="list-style-type: none"> ▪ Writes the Hindu Arabic numerals in Roman numerals. ▪ Writes the Hindu Arabic numerals correctly. ▪ Writes the Roman numerals in Hindu Arabic. 	<ul style="list-style-type: none"> ▪ Recites the roman numerals. ▪ Reads the statements given correctly. 	<ul style="list-style-type: none"> ▪ Explanation ▪ Discussion ▪ Discovery. 	<ul style="list-style-type: none"> ▪ Creative thinking. ▪ Problem solving. ▪ Logical thinking. 	<ul style="list-style-type: none"> ▪ Chart showing roman numerals. 	-Writing the roman numerals. -Reading the statement given.	New MK Primary MTC bk 4 pg. 34-35.
6									
7	Application of roman numeral								

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6	1			<ul style="list-style-type: none"> Addition and subtraction of roman numerals. 	<ul style="list-style-type: none"> Adds Roman numerals. Subtracts roman numerals. 	<ul style="list-style-type: none"> Reads the given word problem. Recites the Roman numerals. 	<ul style="list-style-type: none"> Guided discussion Illustration Discovery 	<ul style="list-style-type: none"> Problem solving. Creative thinking. Logical thinking. 		-Adding roman numerals. Subtracting roman numerals.	New MK Primary MTC bk 4 page 35 Oxford primary bk 4 page 67.
	2 3 4	OPERATIONS ON NUMBERS	<p>Adding up to one million</p> <p>Application of addition of whole numbers</p>	<p>Addition of;</p> <ul style="list-style-type: none"> 2 digit to 1 digit numbers 2 digit to 2 digit 3 to 2 digit 3 to 3 digit 4 to 3 digit 4 to 4 digit 5 to 4 digit and 5 to 5 digit with and without regrouping <p>Solving word problems involving addition (sum, altogether, total, increase, more, plus, aggregation)</p>	<ul style="list-style-type: none"> Adds numbers without regrouping correctly. Adds numbers with word problems correctly. Solves word problems involving addition 	<ul style="list-style-type: none"> Reads numbers in words. Interprets the word problem given. Uses the mathematical terms for addition correctly 	<ul style="list-style-type: none"> Explanation. Guided discussion. Guided discovery 	<ul style="list-style-type: none"> Problem solving. Logical thinking. Creative thinking. Effective communication 	<ul style="list-style-type: none"> Flash cards showing numbers for addition. 	Adding numbers. Reading the word problem.	New MK Primary MTC Bk. 4 pages 38 - 41

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6	5 & 6		Subtracting up to one million	<ul style="list-style-type: none"> Subtraction without and with regrouping. (1 from 2, 2 from 2, 2 from 3, 3 from 3, 3 from 4, 4 from 4) 	<ul style="list-style-type: none"> Subtracts numbers without regrouping. Subtracts numbers with regrouping. 	<ul style="list-style-type: none"> Reads the numbers in words correctly. Uses the new words to make correct sentences 	<ul style="list-style-type: none"> Explanation. Guided discovery Guided discussion. 		<ul style="list-style-type: none"> Flash cards showing numbers for subtraction Using abacus 	Subtracting numbers with or without regrouping.	New MK primary MTC bk pages 42 – 43.
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7		Application of Subtracting up to ten thousand	<ul style="list-style-type: none"> Solves word problems involving subtraction 	<ul style="list-style-type: none"> Subtracts numbers with regrouping. Arranges numbers according to their correct place values. 	<ul style="list-style-type: none"> Reads the numbers given in words. Arranges numbers according to their correct. 	<ul style="list-style-type: none"> Explanation . Guided discovery. Guided discussion 	<ul style="list-style-type: none"> Problem solving. Logical thinking. Creative thinking. 	<ul style="list-style-type: none"> Flash cards showing numbers for subtraction 	Subtracting with regrouping.	New MK primary MTC bk 4 pg 43 – 44	
	1	Application of BODMAS	Solving number involving BODMAS	<ul style="list-style-type: none"> Carries out operation following the order of BODMAS 	<ul style="list-style-type: none"> Reads and writes BODMAS in full 						
	2	OPERATION NUMBER	Multiplication of whole numbers up to 4 by 2 digit	Multiplication by 10,100,1000,10000 <ul style="list-style-type: none"> Multiplication of 1 by 1, 2 by 1, 2 by 2, 3 by 1, 3 by 2, 4 by 1, 4 by 2 digit numbers involving regrouping Application of multiplication 	<ul style="list-style-type: none"> Multiplies given problem. Identifies the multiples of ten. 	<ul style="list-style-type: none"> Reads the word problem. Recites the multiples of ten. Uses correct mathematical terms for multiplication e.g 2 multiplied 	<ul style="list-style-type: none"> Explanation Discussion Discovery. Rote method 	<ul style="list-style-type: none"> Creative thinking. Logical thinking. Problem solving. 	<ul style="list-style-type: none"> Counters. Multiplication table. 	Multiplying numbers	New MK primary MTC bk 4 pages 46 - 51
	3										
	4										
	5										
6											

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8	7	S	Division of whole numbers up to 4 digits	<ul style="list-style-type: none"> ▪ Division as repeated subtraction. ▪ Without remainders. ▪ Division by 10s ▪ Division by 2, 3, 4, 5, 6, 7, 8, 9 ▪ Division as repeated subtraction ▪ Division using long division ▪ Application of division 	<ul style="list-style-type: none"> ▪ Divides numbers using repeated subtraction. ▪ Divides numbers using long division methods 	<ul style="list-style-type: none"> ▪ Counts the number of times a number has been subtracted. 		<ul style="list-style-type: none"> ▪ Counters 	Counting numbers that have been divided.	New MK primary maths Bk 4 pages 52 - 55
	1				<ul style="list-style-type: none"> ▪ Divides numbers using long division methods. 	<ul style="list-style-type: none"> ▪ Recites the multiplication table. ▪ Reads the word problems. 	<ul style="list-style-type: none"> ▪ Discussion. ▪ Guided discovery ▪ Demonstration. 		-Dividing numbers using long division. - Multiplying. - Subtracting	New MK Primary MTC Bk 4 pages 53 - 55.
	2				<ul style="list-style-type: none"> ▪ Divides numbers using repeated subtraction ▪ Divides numbers using long division methods 	<ul style="list-style-type: none"> ▪ Counts the number of times a number has been subtracted ▪ Uses division terms like correctly 			<ul style="list-style-type: none"> ▪ Counters ▪ Flash cards ▪ Real objects 	Counting numbers that have been divided
3										
4										

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8	5	N U M B E R	Types of numbers	<u>Types of numbers</u> <ul style="list-style-type: none"> Counting numbers. Whole numbers. <ul style="list-style-type: none"> Even numbers Odd numbers. 	<ul style="list-style-type: none"> Identifies the types of numbers. Finds the missing numbers. 	<ul style="list-style-type: none"> Recites the numbers. Counts numbers correctly. 	<ul style="list-style-type: none"> Explanation Discussion -Guided discovery 	<ul style="list-style-type: none"> Problem solving. Critical thinking. Discussion making. Problem solving. 	Chart showing examples of the types of numbers. <ul style="list-style-type: none"> Chart showing number 	Giving types of numbers.	New MK primary MTC bk 4 pg. 61. New MK Pr. MTC bk
	6 &		Number sequences	Number sequences <ul style="list-style-type: none"> Square numbers Prime numbers 	<ul style="list-style-type: none"> Identifies the next numbers by adding. 	<ul style="list-style-type: none"> Counts numbers. Mentions 			Finding the next number in		

	7	F A C T S		<ul style="list-style-type: none"> Composite numbers Triangular numbers 	<ul style="list-style-type: none"> Identifies the next number by subtracting. 	the next number in the sequence.		<ul style="list-style-type: none"> Logical thinking. Creative thinking 	sequences.	the sequence s.	4 pages 61 – 62
	1		Forming completing sequence numbers and of	<ul style="list-style-type: none"> Completes sequence of numbers 				Finding the multiples.			

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9	2	A N D S E Q U E N C E S	Multiples	<p>Multiples Of Numbers</p> <ul style="list-style-type: none"> ▪ Listing Multiples Of Given Numbers. ▪ Common Multiples. 	<ul style="list-style-type: none"> ▪ Finds the multiples of various numbers. ▪ Lists the common multiples. Multiples various numbers like 10, 100, 1000 	<ul style="list-style-type: none"> ▪ Defines multiples. ▪ Mentions the multiples of various numbers. ▪ Counts in tens, hundreds and thousands. 				
	3									
	&									
	4			Factors	<ul style="list-style-type: none"> ▪ Lowest Common Multiples (LCM). 					
	5				<ul style="list-style-type: none"> ▪ Factors of Numbers up to 50 ▪ Common Factors ▪ Lowest Common Factors (LCF) ▪ Highest Common Factors (HCF) 					
	6									

10	7 & 1		Applicatio n of factors on venn diagrams	Listing factors Identifying common factors Drawing venn diagrams Filling in the factors							New MK Pr. MTC bk 4 pg 64 - 71
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