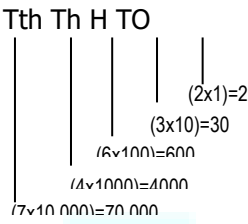**Tekart learning**

Scheme of work for P.4 mathematics term I

WK	PD	THEME	SUB THEME	CONTENT	SUBJECT COMPETENCIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF	RMKS
1	1		Revision of sets	- Revision of sets; Definition of: - (a) Set (b) Elements - Naming sets - Counting number members in a set listing elements of a set	▪ Group objects of a set. ▪ Draws objects. ▪ Identifies sets. ▪ Listing of members in a set ▪ Counting elements	▪ Defines a set. ▪ Names of types of sets.	Guided discussion Demonstration Illustration Explanation	▪ 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.	
			Types of sets	**Types of sets** ▪ Equal sets and equivalent sets. ▪ Empty sets. ▪ Equivalent and non equivalent ▪ Even and odd sets	• States examples of different types of sets. • Identifies types of sets. • Defines the types of sets	• Defines the types of sets. • Names the different types of sets. • Give oral examples of empty sets *	Demonstration Explanation	▪ Creative thinking. ▪ Effective communication ▪ Critical thinking	▪ Real objects ▪ A chart	-Matching - Drawing -Naming sets -Listing members.	New MK primary MTC book 4 pg 1-5	

	PD		SUB THE ME	CONTENT	SUBJECT COMPETENCIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF	RMKS
	2		Intersection of sets	▪ Symbol for intersection. ▪ Drawing venn diagrams and shading. ▪ Listing members in the intersection. ▪ Number of elements in the intersection set.	▪ Writes the symbol for intersection. ▪ Draws venn diagrams. ▪ Shades the intersection. ▪ Lists members. ▪ Finds the number of elements in the intersection set.	▪ Defines intersection sets. ▪ Describes the shaded part.	Illustration Demonstration Guided discussion.	Creative thinking Logical thinking	Real objects. A chart showing intersection part.	-Drawing and shading. - Listing members in the intersection.	MK primary MTC book 4 pg9 – 11	Taught
2	1		Union and intersection of sets	▪ Symbol for union. ▪ Drawing, shading and listing of members in the union set. ▪ Number of elements in the union set.	▪ Writes the symbols for unionsets . ▪ Draws venn diagrams. ▪ Shades the union set. ▪ Lists members in theunion set.	▪ Defines a union set. ▪ Describes the shaded regions.	-Think pair share. -Guided discussion. -Demonstration	▪ Decision making. ▪ Effective communication ▪ creativity	▪ Real objects ▪ A chart	▪ Drawing and shading. ▪ Listing members in the union	MK Pri MTC bk. 4 pg. 13 - 15	Taught

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2	1	SETS	Difference of sets	Inpterprete symbols and find (i) A - B (ii) B - A (iii) n(A-B) (iv) n(B-A)	• Interprets the concept of the difference of sets. • Shades the regions. • Draws the regions.	• Counts the numbers of members in; A – B B - A • Describes the shaded parts.	• Guided discussion • Demonstration • Discovery • Illustration	• Effective communication. • Critical thinking. • Creativity	• Real objects. • A chart	• Drawing • Shading • Listing • Counting	New MK primary MTC book 4 page 13-15	Taught
			Sub sets	• Number of members in a set. • Listing members in a set. • Listing subsets in a set.	• Lists members in a set. • Writes the symbol of subject. • Lists the subsets in a set.	• Defines a subset. • Counts the number of subsets.	• Guided discussion. • Demonstration. • Discovery.	• Creativity. • Effective communication. • Critical thinking.	• Real objects • A chart	• Listing • Drawing • Counting	New MK Primary MTC bk 4 pg. 21	Taught
		NUMBERATION SYSTEM AND PLACE VALUE	Place values	Reading and counting numbers Place values. (a) In words. (b) In figures. Example 4 5 6 3 Ones Tens Hundreds Thousands	• Identifies the place values. • Writes the place values.	Read the place values in words and in figures. Counts in tens from 10-200 Names place values from ones to tens thousands	• Guided discussion. • Group illustration.	• Creative thinking. • Effective communication. • Decision making.	• Abacus • Place value chart.	• Identifying place values. • Writing place values.	New MK Primary MTC book 4 pg 19 – 20.	Taught

Contact: 0754895241/0783298434
Email: tekule@tekartlearning.com
Website: www.tekartlearning.com

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			Place values of digits in numbers.	Values of digits in numbers. Example 1 What is the value of each in the number 7 4 6 3 2 Tth Th H TO (2x1)=2 (3x10)=30 (6x100)=600 (4x1000)=4000 (7x10,000=70,000	• Identifies the place values of digits. • Writes the place values on each digit. • Multiplies digits by their place values. • Writes the values.	• Reading values in words.	▪ Guided discovery ▪ Demonstration. ▪ Illustration.	▪ Creative thinking. ▪ Effective communication. ▪ Discussion making.	▪ Place value chart. ▪ Abacus.	▪ Identifying place values. ▪ Multiplying of digits by P.V. ▪ Writing values.	New MK Primary MTC Bk 4 pag 21.	Taught
			Expanding of numbers	Expanding of numbers ▪ Using place values ▪ Using values.	▪ Identifies place value. ▪ Writes the values. ▪ Writes in expanded form.	▪ Reads the place values. ▪ Reads the values.	▪ Illustration. ▪ Discovery ▪ Group work	▪ Effective communication. ▪ Logical thinking ▪ Decision making	▪ A place value chart.	-Identifying values. -Writing values. -Expanding numbers.	New MK primary MTC bk 4 pg 21.	Taught
3	1	N U	Expanded numbers	What number has been expanded (7 x 1000) +(4 x 100 + (3x10) + (8 x 1)	▪ Multiplies the numbers correctly. ▪ Adds the numbers. ▪ Identifies the expanded number.	▪ Reads the figures. ▪ Reads the expanded number.	▪ Guided discovery. ▪ Group work. ▪ Illustration.	▪ Effective communication. ▪ Logical reasoning.	▪ Place value chart.	-Multiplying -Adding -Identifying	New MK primary MTC book 4 pg 24	Taught

WK	PD		SUB THE ME	CONTENT	SUBJECT COMPETENCIES	LANGUAGE COMPETENCIES	METHODS	LIFE SKILL	T/L AIDS	T/L ACTS	REF	RMKS
	2		Writing words in figures and vice versa	• Writing figures in words. • Writing words in figures.	• Writes figures in words. • Writes words in figures.	• Reads figures correctly. • Reads words correctly.	• Explanation • Guided discovery • Discussion.	• Effective communication. • Creative thinking. • Logical reasoning.	• Place value chart.	-Writing -Reading -Arranging digits.	New MK primary MTC bk 4 pgs. 22-23	Taught
			Rounding off of whole numbers	• Rounding off to the nearest tens. • Rounding off to the nearest hundreds. • Rounding off to the nearest thousands.	• Mentions the meaning of approximate. • Rounds off numbers to the nearest tens / hundreds.	• Mentions the meaning of approximate. • Reads the number given.	• Discovery • Discussion • Illustration	• Logical thinking. • Critical thinking. • Effective communication.	• Place value chart.	-Rounding off to the nearest tens / hundreds.	New MK primary MTC bk 5 pages 54 - 55	Taught
	3		Roman numerals	• Basic roman numerals. • Roman numerals got by repeating x, c • Roman numerals got by adding subtracting.	• Identifies roman numerals. • Adds the Roman numerals. • Subtracts the Roman numerals.	• Recites the roman numerals. • Mentions the Roman numerals obtained.	• Explanation • Discussion • Discovery.	• Creative thinking. • Problem solving. • Logical thinking.	• Chart showing Roman numerals.	-Reciting the Roman numerals.	New MK Primary MTC bk 4 pg 33	Taught

Contact: 0754895241/0783298434
Email: tekule@tekartlearning.com
Website: www.tekartlearning.com

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4	4		Roman numerals	▪ Changing from Hindu Arabic numerals to Roman numerals. ▪ Changing from Roman numerals to Hindu Arabic numerals. ▪ Word problems about Roman and Hindu Arabic numerals.	▪ Writes the Hindu Arabic numerals in Roman numerals. ▪ Writes the Hindu Arabic numerals correctly. ▪ Writes the Roman numerals in Hindu Arabic.	▪ Recites the Roman numerals. ▪ Reads the statements given correctly.	▪ Explanation ▪ Discussion ▪ Discovery.	▪ Creative thinking. ▪ Problem solving. ▪ Logical thinking.	▪ Chart showing Roman numerals.	-Writing the Roman numerals. -Reading the statement given.	New MK Primary MTC bk 4 pg. 34-35.	Taught
				▪ Addition and subtraction of roman numerals.	▪ Adds Roman numerals. ▪ Subtracts roman numerals.	▪ Reads the given word problem. ▪ Recites the Roman numerals.	▪ Guided discussion ▪ Illustration ▪ Discovery.	▪ Problem solving. ▪ Creative thinking. ▪ Logical thinking.		-Adding roman numerals. Subtracting roman numerals.	New MK Pri MTC bk 4 page 35 Oxford pribk 4	Taught
4	2	OPERATION ON WHOLENUMBERS	Adding up to ten thousand	Addition ▪ Without word problems. ▪ With word problems.	▪ Adds numbers without word problem correctly. ▪ Adds numbers with word problems correctly.	▪ Reads numbers in words. ▪ Interprets the word problem given.	▪ Explanation. ▪ Guided discussion. ▪ Guided discovery.	▪ Problem solving. ▪ Logical thinking. ▪ Creative thinking.	▪ Flash cards showing numbers for addition.	Adding numbers. Reading the word problem.	New MK MTC Bk. 4 pages 38 - 41	Taught

WK	PD		SUB THEME	CONTENT	SUBJECT COMPETENCIES	LANGUAGE COMPETENCIES	METHODS	■ Effective communication	T/L AIDS	T/L ACTS	REF	RMKS
			Subtracting up to ten thousand	■ Subtraction. ■ Without re-grouping. ■ With re-grouping.	■ Subtracts numbers without regrouping. ■ Subtracts numbers with regrouping.	■ Reads the numbers in words correctly. ■ Uses the new words to make correct sentences	■ Explanation. ■ Guided discovery. ■ Guided discussion.		■ Flash cards showing numbers for subtraction	Subtracting numbers with or without regrouping.	New MK primary MTC bk pages 42 – 43.	Taught
5	2		Subtracting up to ten thousand	■ Subtraction with regrouping.	■ Subtracts numbers with regrouping. ■ Arranges numbers according to their correct place values.	■ Reads the numbers given in words. ■ Arranges numbers according to their correct.	■ Explanation. Guided discovery. ■ Guided discussion	■ Problem solving. ■ Logical thinking. ■ Creative thinking.	■ Flash cards showing numbers for subtraction	Subtracting with regrouping.	New MK primary MTC bk 4 pg 43 - 44	Taught
	3		Multiplication	**Multiplication** • Multiplication as repeated addition. • By multiples of ten 90, 80. 70 … • Three digit figures by one digit. • Two digit figures by 2 digits. • Multiplication on word problems.	■ Multiplies given problem. ■ Identifies the multiples of ten.	■ Reads the word problem. ■ Recites the multiples of ten. ■ Uses correct mathematical terms for multiplication e.g 2 multiplied by 3	■ Explanation. Discussion ■ Discovery. ■ Rote method	■ Creative thinking. ■ Logical thinking. ■ Problem solving.	■ Counters. ■ Multiplication table.	Multiplying numbers	New MK primary MTC bk 4 pages 46 - 51	Taught

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6			Division	▪ Division as repeated subtraction. ▪ Without remainders.	▪ Divides numbers using repeated subtraction. ▪ Divides numbers using long division methods	▪ Counts the number of times a number has been subtracted			▪ Counters	Counting numbers that have been divided.	New primary mathsBk 4 MK 53 – 55.	Taught
				▪ Division by one digit number ▪ Division with remainders. ▪ Division by 10s ▪ Word problems.	▪ Divides numbers using long division methods.	▪ Recites the multiplication table. ▪ Reads the word problems.	▪ Discussion. ▪ Guided discovery. ▪ Demonstration.			-Dividing numbers using long division. -Multiplying. Subtracting	New MK Primary MTC Bk 4 pages 53 – 55.	Taught
			Average	▪ Average without word problem. ▪ With word problem.	▪ Solves the number given. ▪ Adds numbers. ▪ Divides the number correctly.	▪ Reads the number or digits given. ▪ Reads the statement given.	▪ Explanation. ▪ Guided discussion. ▪ Discovery.	▪ Problem solving. ▪ Critical thinking. ▪ Discussion making.	▪ Counters in bundles.	Finding the average.	New MK Pr. MTC bk5 pg. 76 - 77	Taught
	A P A T T E R N S	Types of numbers		Types of numbers ▪ Counting numbers. ▪ Whole numbers. ▪ Even numbers ▪ Odd numbers.	▪ Identifies the types of numbers. ▪ Finds the missing numbers.	▪ Recites the numbers. ▪ Counts numbers correctly.	▪ Explanation. ▪ Guided discussion. ▪ Discovery.	▪ Problem solving. ▪ Critical thinking. ▪ Discussion making.	▪ Chart showing examples	Giving types of numbers.	New MK primary MTC bk 4 pg. 61.	Taught
		Number sequences		Number sequences ▪ By adding numbers like 2, 4, 6, … ▪ By subtracting numbers like 6, 4, 2……	▪ Identifies the next numbers by adding. ▪ Identifies the next number by subtracting.	▪ Counts numbers. ▪ Mentions the next number in the sequence.			▪ Chart showing number sequences.	Finding the next number in the sequences.	New MK Pr. MTC bk4 pages 61 – 62	Taught

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7	1	A N D S E Q U E N C E S		Number sequences • By subtracting numbers like 6, 4, 2. • Find missing numbers in a sequence	• Identifies the next number in the sequence by subtracting.	• Counts numbers. • Mentions the next number in the sequences	• Explanation • Discussion • -Guided discovery	• Problem solving. • Logical thinking. • Creative thinking	• Chart showing number sequences	Finding the next number in the sequences	New MK. Pr. MTC bk 4 pg. 62-63	Taught
	4		Multiples	**Multiples** ▪ Listing multiples of given numbers. ▪ Common multiples. ▪ Lowest common multiples. ▪ Counting in tens, hundreds and thousands. ▪ Multiplying by 10, 100 and 1000. ▪ Multiplying by multiples of 10. ▪ Factors of numbers ▪ GCF if numbers ▪ Completing tables	• Finds the multiples of various numbers. • Lists the common multiples. • Multiples various numbers like 10, 100, 1000	• Defines multiples. • Mentions the multiples of various numbers. • Counts in tens, hundreds and thousands.				Finding the multiples.	New MK Pr. MTC bk 4 pg 64 - 71	
7	4	Number facts and	Magic square.	• Magic square	• Completes the magic square	• Find the value of the missing numbers			▪ Chart showing magic square.	Finding the missing numbers in the magic square.	Old MK Pr. MTC bk 4 pg. 72-73	