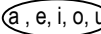
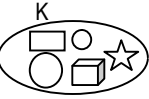

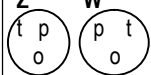








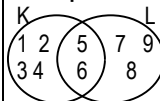
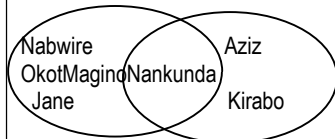
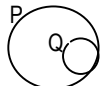
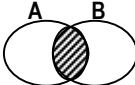
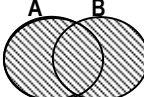
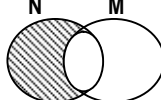
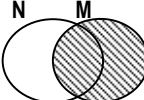
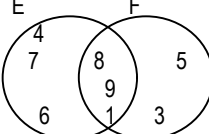


P.4 MATHEMATICS SCHEME TERM 1

WK	PD	TOPIC	SUB-TOPIC	SUBJECT COMP.	COMPETENCES		CONTENT	METHOD	ACTIVITIES	L/SKILL	T/LAIDS	REF	REM
					SUBJECT	LANGUAGE							
1	1	set	set concept		The learner; Describes a set. Draws sets Names the given sets Counts members of a given set	The learner; Reads, pronounces and spells new words -sets -member -element	A set This is a collection of well defined objects / elements / members -A member is a thing which belong to a set. -An element is another name for a member Examples Name these sets a)  A set of vowel letters b) How many elements has set K?  Set K has 5 elements.	Guided discovery Observation	Drawing sets Naming sets counting members of a set	Effective communication Problem solving	Pens Books Rubbers Leaves	A new MK book 4 page 1 St Bernard book 4 page 1 - 3	
	2	sets	set concept		The learner; Describes various types of sets Draws the set symbols	The learner; Reads, pronounces, spells and uses words -empty sets -equal sets -equivalent sets -union sets	Empty sets (Null set) -An empty set is a type of set with no members / elements -The symbol in \emptyset or $\{ \}$ Examples 1. Pupils in our class with blue pens <u>Not empty set</u> 2. A boy with 7 legs <u>Empty set</u> 3.  <u>Set P is an empty set</u>	Inquiry Guided discovery	Describing types of sets Drawing sets and symbols	Logical thinking Critical thinking Problem solving	Real objects like -cups -plates -bottles	Fountain Primary Maths book 4 page 5 A new MK primary Maths book 4 page 2 St. Benerall Maths book 4 page 4 – 5	
	3	sets	set concept	Types of sets	The learner; Describes the various types of sets Draws sets and	The learner; Reads, pronounces, spells and uses words -equal sets -non equal sets	Equal sets -Equal sets are sets with the same number of members which are exactly the same. -Non-equal sets are sets with the same number of elements which are not exactly	Guided discovery Discussion	Drawing sets Matching equal sets	Critical thinking Effective communication	Real objects like -bottles -pens -plats	MK primary maths book 4 page 8	

					their symbols		the same				-pencils -chalk		
							<p>Example 1</p> <p>Z W</p>  <p><u>Set Z and Set W are equal sets</u></p> <p>Example 2</p> <p>Given that R = (w,x,y,z), S=(a,b,c,d)</p> <p><u>Set R and S are non-equal sets</u></p>						
	4				<p>The learner; Describes the various types of sets</p> <p>Draws sets and their symbols</p>	<p>The learner; Reads, pronounces, spells and uses words -equivalent -non equivalent</p>	<p>Equivalent sets -Equivalent sets are sets with the same number of members which not be exactly the same Symbol: \longleftrightarrow</p> <p>-Non-equivalent sets are sets with different numbers of elements (\nleftrightarrow)</p> <p>Example 1</p> <p>A = ( ,  ,  , )</p> <p>B = ( ,  ,  , )</p> <p>Set A and B are equivalent sets (Set A \longleftrightarrow Set B)</p>	Guided discovery Inquiry	Describing Drawing	Problem solving Effective communication		A new MK primary Maths book 4 page 5 – 7 Fountain primarymaths book 4 page 6 – 7	
	5				<p>The learner; Describes the various types of sets</p> <p>Draws the sets and their symbols</p> <p>Lists and finds the number of elements</p>	<p>The learner; Reads, pronounces, spells and uses new words -intersection sets</p>	<p>Intersection sets These are sets with common members Symbol: \cap</p> <p>Example 1</p>  <p>i) List $K \cap L$ $K \cap L = (5, 6)$</p> <p>ii) $\cap (K \cap L) = 2$</p> <p>Example 2</p> <p>D = (x, y, z, w) and K =(4, 5, 6, 7)</p> <p>i) What is $D \cap K$?</p> <p>$D \cap K = \{ \}$</p>	Guided discovery Discussion Inquiry	Describing Drawing	Problem solving Effective communication		A new MK primary maths book 4 page 9 – 12 St. Bernard maths book 4 page 8 – 11	

							ii) Find $\cap (D \cap K) = 0$						
2	1	Sets	Set concepts	Types of sets	<p>The learner; Describes the union set</p> <p>Draws sets and their symbols</p> <p>Counts members of the union set</p>	<p>The learner; Reads, pronounces, spells, writes and uses key words -union set</p>	<p>Union sets This is a set of all elements that contains two or more given sets. Symbol “ \cup ”</p> <p>Example 1 Given that T = (Nabwire, NaginomOkotm Jane) V=(Aziz, Nankunda, NirabomMagino)</p> <p>What is $T \cup V$?</p>  <p>$T \cup V = (\text{Nabwire, Okot, Jane, Magino, Aziz, Nankunda, Kirabo})$</p> <p>Find $n(T \cup V) = 7$ Note: Common members in union sets are always written or counted once.</p> <p>Example 2 E=(2,3,5,8) and G=(1,4,6,7,9) Find $E \cup G$ $E \cup G =(1,2,3,4,5,6,7,8,9)$</p> <p>$n(E \cup G) = 9$ members</p> <p>$n(E \cap G) = 0$ a)</p>	<p>Inquiry</p> <p>Guided discovery</p> <p>Discussion</p>	<p>Listing elements of the union</p> <p>Drawing venn diagrams</p>	<p>Problem solving</p> <p>Effective communication</p>	<p>Real objects like -cups -pencils -plates -pens</p>	A new primary maths book 4 page 13 Fountain primary mathematics book 4 page 8 – 10	
	2	Sets	Set concepts		<p>The learner; Describes a subset</p> <p>Identifies subsets</p> <p>Draw subsets</p>	<p>The learner; Reads, pronounces, spells and uses words correctly -subset</p>	<p>Subsets: This is a set of elements got from a given set Symbol \subset</p> <p>Example 1 Describe the sets below P = { } Set Q is a sub set of set P.</p>  <p>$(Q \subset P)$</p> <p>Example 2 Given that A=(a,e,i,o,u) B=(i,o,u) Describe set A and B Set B is a subset of set A</p>	<p>Guided discovery</p> <p>Discussion</p>	<p>Identifying subsets</p> <p>Drawing subsets</p>	<p>Problem solving</p>			

							Draw a venn diagram to show that all girls are pupils.						
	3	Sets	Set concepts	Shading of regions The learner; Identifies the regions Draws the venn diagrams Shades the region	The learner; Reads, pronounces, spells and uses words -union intersection	Shading of regions Example 1 shade set A on the venn diagram below  Example 2 Shade the union of set K and P on the venn diagram below  Example 3 Shade N – M (N only)  Shade set M 	Inquiry Guided discovery Discussion	Drawing the venn diagrams Shading the regions	Logical thinking Effective communication	Circular objects like -coins -bottle tops			
	4	Sets	Set concepts	Difference of sets The learner; Identifies the members of a particular set Lists the members	The learner; Reads, pronounces, spells and uses words correctly	Difference of sets Study the venn diagram below and answer the questions Example 1  What is i) $E - F$ $E - F = \{6, 7\}$ ii) $F - E$ $F - E = \{3, 4, 5\}$ iii) $n(E - F)$ $n(E - F) = 2$	Brain storming Guided discovery						

							iv) $n(F - E) = 3$						
	5			Finding the members of elements in a given set	<p>The learner; Identifies the given sets correctly</p> <p>Finds the number</p>	<p>The learner; Reads, pronounces, spells and uses words correctly</p>	<p>Find the number of elements in a given set Examples If set B = (Vowel letters), how many elements are in set B? B(a,e,i,o, u) $n(B) = 5$</p> <p>Example 2 K= (all counting num bers up to 10) Find $n(K)$ K= (1,2,3,4,5,6,7,8,9,10) Therefore $n(K) = 10$</p>	<p>Discussion</p> <p>Brain storming</p>					

	5			More about values of numbers	The learner; Identifies the place values of each digit Names the place values Finds the sum, difference, product of the values	The learner; Reads, pronounces, spells								
4	1	Numeracy	Whole numbers	Writing numbers in expanded form	The learner; Identifies place values of digits Writes the given number in expanded form	The learner; Reads, pronounces, spells and uses words -expand -Large valeur place value								
	2			Finding expanded numbers	The learner; Identifies the given number Writes as a single number	The learner; Reads, pronounces, spells and uses words -expand -value -place value -single -Large								
	3	Numeracy	Whole numbers	Writing figures in words	The learner; Identifies the figure correctly	The learner; Reads, pronounces, spells and uses words -figures -numbers								
	4			Writing numbers in figures	The learner; Identifies the written statement Interprets the statement Writes numbers in figures	The learner; Reads, pronounces, spells and uses words -figures -numbers								
	5			Rounding off whole numbers to the nearest tens	The learner; Identifies the required place values Rounds off numbers correctly	The learner; Reads, pronounces, spells and uses words -R.P.V -round off -tens								

5	1	Numeracy	Whole numbers	Rounding off whole numbers to the nearest hundreds	The learner; Identifies the required place value Rounds off the number correctly	The learner; Reads, pronounces, spells and uses words -hundreds -RPV -round off							
	2			Rounding off whole numbers to the nearest thousands	The learner; Identifies the required place values Rounds off the numbers correctly	The learner; Reads, pronounces, spells and uses words -thousands -RPV -round off							
	3			Changing Hindu Arabic numerals to Roman numerals	The learner; Identifies the Hindu Arabic numerals Writes the Roman numerals	The learner; Reads, pronounces, spells and writes Roman numerals							
	4			Converting Roman numerals to Hindu Arabic numerals	The learner; Identifies the Roman numbers correctly Writes the Hindu Arabic numeral correctly	The learner; Reads, pronounces, spells and writes Arabic numerals							
	5	Numeracy	Operation on whole numbers	Addition of whole numbers	The learner; Identifies the place values correctly Adds whole numbers up to 5 digits	The learner; Reads, pronounces, spells and uses words -add -sum -plus -regrouping -altogether							
6	1			Word application involving addition	The learner; Interprets the questions correctly Solves problems involving addition	The learner; Reads, pronounces, spells and uses words -add -plus -regrouping -altogether							

	2			Subtraction of whole numbers	The learner; Identifies the place values correctly subtracts whole numbers correctly	The learner; Reads, pronounces, spells and uses words -subtract -minus -take away -remove -regrouping -difference								
	3	Numeracy	Operation on whole numbers	Word application involving subtraction	The learner; Interprets the questions properly Solves problems involving subtraction	The learner; Reads, pronounces, spells and uses words -subtract -minus -take away -remove -regrouping -difference								
	4			Multiplication of whole numbers	The learner; Recites the multiplication tables Solves problems involving multiplications Multiplies numbers	The learner; Reads, pronounces, spells and uses words correctly -multiply -times -product								
	5			Word application involving multiplication	The learner; Interprets the statements correctly Solves problem involving multiplication	The learner; Reads, pronounces, spells and uses words -multiply -times -product								
7	1	Numeracy	Operation on whole numbers	Division of whole numbers	The learner; Identifies the operation symbol. Divides numbers correctly	The learner; Reads, pronounces, spells and uses words correctly -divide -share -quotient								
	2			Word application involving division	The learner; Interprets the statements correctly Divides numbers correctly	The learner; Reads, pronounces, spells and uses words -divide -share -quotient								

					Solves problems involving division								
	3		Patterns and sequences	Types of numbers	The learner; Identifies the number system Describes each number system Gives the examples	The learner; Reads, pronounces, spells and uses words -even -odd -whole -counting							
	4	Numeracy	Patterns and sequences	Number sequences (missing numbers)	The learner; Identifies the number system Fills in the patterns correctly	The learner; Reads, pronounces, spells and uses words							
	5			Multiples of numbers	The learner; Finds the multiples Writes the multiples	The learner; Reads, pronounces, spells and uses words -multiples							
8	1	Numeracy	Patterns and sequence	More about multiples of numbers	The learner; Finds the multiples Lists the multiples	The learner; Reads, pronounces, spells and uses words -multiples							
	2			Common multiples	The learner; Lists the multiples Identifies the common multiples	The learner; Reads, pronounces, spells and uses words correctly							
	3			Finding the lowest common multiples (LCM)	The learner; States LCM in full Finds the LCM of given numbers	The learner; Reads, pronounces, some of the key words							
	4			Factors of numbers	The learner; Describes a factor Finds factors of numbers	The learner; Reads, pronounces, spells key words -factor							

	5			More about finding factors	The learner; Describes a factor Finds factors of numbers	The learner; Reads, pronounces, spells and uses words correctly							
9	1	Numeracy	Patterns and sequences	Finding the Greatest Coommon Factor (GCF) or (HCF)	The learner; Describhes the GCF Finds the Common factors Writes the GCF	The learner; Reads, pronounces key words -GCF / HCF							