

PRIMARY SIX MATHEMATICS SCHEMES OF WORK-TERM ONE

W	P	THEME	TOPI C	SUBTOPIC	SUBJECT COMP	LANG. COMP	CONTENT	METHOD	ACTIVIT	LIFE	AVA	REF	REM
K	D								Y	SKILLS			
		S	SETS	Review of	The pupil	The learner	-Complement of	Guided	Answering	Fluency	Α	Mk	
	1	E	concept.	the p.5	1. Identifies	describes the	sets.	discovery	the oral		chart	mtcs	
2		Т		work	complements of	complements of			questions	Creative	showi	bk 5	
4		S			sets.	sets.	-Subsets & proper	Problem solving	_	thinking	ng	Mk	
					2.finds the number		subsets				compl	mtcs	
	&				of subsets & proper	The learner	- Simple application	Discussion	Doing the	Sharing	iment	bk6	
					subsets	defines the	of sets.		class		of	page	
	2				3. Works out simple	terms subset			exercise		sets.	5-6	
					application of sets.	and proper						Fount	
						subsets.						ain	
												maths	
												bk 6	
												pg 8	
												15	

3 & 4			Application of subsets and proper subsets	 Applies the formula to get the number of elements in a given set. Uses the formula to get the number of members. 	The learner explains the following terms: subsets and proper subsets.	 How many elements are in a set with 32 subsets. Calculate the number of members in a set with 63 proper subsets. 	Problem solving Brain storming Guided discovery	Answering the oral question asked by the teacher.	Confidenc e Critical thinking. Self esteem	Chalk board illustr ation.	Fount ain mtcs bk Mk mtcs bk 7 page 3 4
5 & 6			Application of sets.	The pupil 1. Draws Venn diagram. (2 case). 2. Correctly answers questions from the Venn diagram.	The learner describes the information given on a Venn diagram	Example 1. Given that the n(A) = 10, $n(B) =15 and n(AnB) = 6a) Show the aboveinformation on aVenn diagram.b)Find n(A-B)c)n(A-B)$	Guided Discovery problem solving Class discussion	Drawing the Venn diagrams Answering the oral questions.	Self esteem Confidenc e Problem solving	A chart Show ing the questi ons invol ving the Venn diagra m	Funct ional Mtcs bk6 pg10 Under standi ng mtcs bk6 pg14 Mk mtcs bk6 pg23
1 & 2 3	S E T S	SETS	More about application of sets.	The pupil should be able to:- 1.show information on Venn diagrams 2.Find the value of the unknowns	The learner describes the different ways though which a Venn diagram may be used to represent information <u>.</u>	Example 1. In a class of 40 pupils, 20 pupils like English (E) while 25 pupils like Math (M) and some pupils like both subjects. a) Show the above on the Venn diagram. b) How many pupils like both subjects?	Guided discovery Problem solving Discussion	Doing the class exercises Answering the oral questions	Cooperati on Effective communic ation Critical thinking	Chalk board illustr ation A chart showi ng the applic ation of Venn	Under standi ng mtcs bk6 pg 14 Mk mtcs bk6 pg 29

						c) Find the probability of picking a pupil who likes only one subject to be the class captain?				diagra ms.	
3			Probability	The pupil 1.Lists the sample space of a coin and adice 2. Finds the chance of an event occurring.	The learner defines the term probability. The learner describes how to find probability The learner lists the sample space.	Probability is how likely something is to happen. Example 1. What is the probability that it will rain on a day starting with letter "T". 2. If a coin is tossed at once. What is the probability of ahead showing up? 3. When a dice is tossed once, What is the probability of scoring a prime number?	Problem solving Guided discovery Class discussion	Sharing ideas on probability. Answering the given class exercise.	Interperso nal skills Creative thinking Decision making	A chart showi ng the Carte sian produ cts.	Mk mtcs bk6 pg30, Mk mtcs bk7 pg 189
4	S E T S	SETS	Application of probability	The pupil 1. Finds the probability of an event occurring. 2. Works out problems involving the application of probability.	The learner identifies ways through which probability may be used in our day today lives.	Example 1. The probability that it will rain today is 2. What 3 is the probability that it will not rain today? 2. Given that a bag has 8 blue pens and 6 red pens. What is the probability of picking a red pen?	Guided discovery Problem solving Discussion	Answering the given oral questions Doing the given class exercise.	Fluency Cooperati on Problem solving	Chalk board illustr ation	Fount ain Mtcs bk6 page 22 Mk mtcs book 6 page 192

3	5 6 & 1 & 2	N U M E R A C Y	WHOLE NUMBE RS	Review of the p.5 work	The pupil :- 1. Reviews the place values and values of wholes up to millions. 2. Review writing figures in words up to millions and vice versa 3. Rounds off whole numbers 4. Reviews roman numerals up to 2000.	The learner explains the difference between place values and values. The learner also identifies the roman numerals up 2000.	 Place values and values of wholes. -Writing figures in words and vice versa -Rounding off whole numbers. -Roman numerals up to 2000. 	Guided discovery Problem solving discussion	Doing the revision exercise Doing the correction	Critical thinking Eff ective communic ation Fluency	Chalk board illustr ation.	Mk mtcs bk 6 pg 47 Mk mtcs bk6 page 30 Fount ain mtcs bk6 page 37 -
	3 & 4	N U M E R A C Y	WHOLE NUMBE RS	Expanding numbers using powers or exponents.	The pupil : 1. Identifies the powers of each digit. 2. Expands numbers using powers of base ten. 3. Finds the expanded number.	The learner explains the relationship between place values and powers.	Example 1. Expand 345672 using powers of base ten. 2. What number has been expanded to give $(3x10^3)$ $+(6x10^2) + (4x10^1)$ $+(9x10^0)$	Guided discovery Problem solving Class discussion	Answering the oral questions.	Fluency Cooperati on Problem solving	A chart showi ng the expan sion of numb ers using the power s of ten.	41 Mk mtcs bk7 pg49 Fount ain mtcs bk 6 page 27 - 28

4	5 & 6 & 1		OPERATIO N ON WHOLE NUMBERS.	Review on multiplicati on and division of whole numbers	The learner : 1. Adds and subtracts whole numbers up to millions. 2. Multiplies up to 3 digits by 3 digit numbers. 3. Dividing whole numbers by 3 digits	The learner explains the terms products and quotient.	Example 1.Multiply 325x 56 2.Divide 3684 by 12	Guided discovery Problem solving Class discussion	Answering the oral questions. Reciting and applying tables.	Com munic ation Fluen cy probl em solvin g	Chalkbo ard illustrati on.	MK mtcs bk 6 page 58 - 61 MK mtcs bk7 page 46	
5	2			Review on addition and subtraction of bases.	The learner: 1. Reviews addition and subtraction of bases.	The learner explains the steps taken to add or subtract bases.	Example 1. Add 213five +13five 2. Subtract 212three from 221 three	Guided discovery Problem solving Class discussion	Answering oral questions	Com munic ation Fluen cy probl em solvin g	Chalkbo ard illustrati on Counter s	Fountain mtcs book 6 page 223— 225 Mk mtcs bk 7 page 40- 41	
5	3 & 4		OPERATIO N ON WHOLE NUMBERS	Changing from one base to another	The pupil : 1. Changes given bases to decimal base. 2. Changes from the decimal base to other bases.	The learner explains the meaning of decimal base, binary base.	Example 1. Covert 112 three to decimal base. 2. Change 212 four to base five.	Guided discovery Problem solving discussion	Answering the oral questions Doing the class exercise	Appre ciatio n of other peopl es' views Coop eratio n Shari ng	Chalkbo ard summar y	Mk mtcs bk7 pg39 Fountain mtcs bk 6 page 227 - 229	
	5 & 6	N U M E R		Finding the unknown base.	The pupil : 1. Finds the value of the unknown base.	The learner describes the steps required	Example 1.Find the value of x in $21_x =$ 32five	Discussion Guided discovery	Discussing the examples	Critic al thinki ng	Chalkbo ard illustrati on	Fountain mtcs bk 6 page230	

	Α	2. Converts other	to change			Doing the class	Probl		
	C	bases to base ten.	from one	2. Calculate the		exercise	em		
	Y		base to	value of y in :-	Problem		solvin		
			another.	$31_y = 15$ ten.	solving		g		

	1	OPERAT ION ON WHOLE NUMBE RS	Standard/scientific notation	The pupil : 1. express whole numbers in scientific form 2. express decimals in scientific form	The learner explains the term scientific notation or standard form.	Example: 1. express 1489 in standard form 2. What is 0.004543 in scientific form?	Class discussion Guided discovery Problem solving	Doing the class exercise	Critical thinking Cooperati on Problem solving	Chalk board illustr ation	MK mtcs bk7 page 50
6	2	 	Indices (powers or exponents)	The pupil : 1. memorizes	The learner recites the	Example: 1. simplify 4 ³ x 4 ⁵	Class discussion	Answering the oral	Fluency Effective	Chalk board	MK mtcs
	&			the laws of indices 2. Work out	first, second and third laws of	2. simplify $5^2 x 5^4$	Guided discovery	question	communic ation	illustr ation	bk7page 51- 52
	3			problems involving the laws of indices.	indices accurately	3. Simplify 6 ⁵ ÷ 6 ³	Problem solving		Creative thinking		Functio nal mtcs bk6 pg

	4 & 5	N U M E R A C Y	OPERAT ION ON WHOLE NUMBE RS	Solving unknown indices (Application of indices)	The pupil : 1. solves for the unknown bases	The learner recites the first, second and third laws of indices accurately	Example 1. Solve 2 ^y = 32 2.Solve 3 ^{2p} = 3 ⁸ 2.Solve 2 ^x x3 ³ =108	Class discussion Guided discovery Problem solving	Doing the class exercise	Critical thinking Cooperati on Problem solving	Chalk board summ ary	MK mtcs bk7 page 53	
6	6 & 1 & 2		NUMBE R PATTER NS AND SEQUEN CES	Review of P.5 work	The learner: 1. Identifies the different types of numbers. 2. Finds the squares and square roots of numbers. 3. Calculates the L.C.M and G.C.F 4. Represents prime factors on the Venn diagram	The learner reads the vocabulary such as squares and square roots, explains the difference between L.C.M and G.C.F	-Types of numbers. -Squares and Square root of numbers. -L.C.M and G.C.F - Representing prime factors on the Venn diagram.	Guided discovery Problem solving Discussion	Answering the given oral questions Identifying the squares of given numbers.	Fluency Effective communic ation Creative thinking	Chalk board illustr ation	MK primary Mtc bk 6 page Fountai n Mtc bk6 page	
7	3			Relationship between LCM and GCF	The pupil should be able to: 1. Calculate the value of the GCF when given the LCM and the numbers.	The learner describes the relationship between GCF, LCM and the product of the numbers.	Example: 1. Given that the LCM of 16 and y is 48 and their GCF is 4. Find the value of y. 2. The product of two numbers is 60 and their GCF is 6. Find the LCM	Class discussion Guided discovery Problem solving	Doing the class exercise	Creative thinking Critical thinking Effective communic ation	Chalk board summ ary	Primary mathem atics for Uganda bk6 page 52	

-			1	I	1		T	1	1			
				2. find the								
				missing								
				numbers when								
				given the GCF								
				and LCM								
			Application of	The pupil	The learner	Example:	Class	Answering	Critical	Sum	Primary	
	Ν		LCM	should be able	describes the	1. Find the smallest	discussion	the given	thinking	mary	mathem	
4	U		-	to:	different	number that can be		oral	0	on	atics for	
	M			1. Apply LCM	ways	divided by 4 or 6	Problem	questions	Cooperati	chalk	Uganda	
	E			in their day to	through	leaving the	solving	questions	on	board	Bk6	
&	R			day life.	which the	remainder as 2.	solving	Attempting	on	board	page 53	
a	A			2. work out	knowledge	2. In a school, two	Guided	the given	Problem		page 55	
5	C			correctly	of LCM	bells are rung at	discovery	evaluation	solving			
5	Y			2		intervals of 30	uiscovery		sorving			
	x			questions	may be			exercise				
				involving the	applied.	minutes and 40						
				application of		minutes						
				LCM		respectively to						
						change lessons.						
						After how long will						
						the two bells ring						
						together again?						
			Divisibility test of 9	The learner	The learner		Problem	Answering	Critical	Chalk	MK	
6			and 11	1. Applies	describes the	-Test for 9	solving	the oral	thinking	board	mtcs bk	
				divisibility tests	divisibility	-Test for 11	-	question		illustr	7 page	
				for 9 and 11	tests for 9		Guided	-	Cooperati	ation	62	
				when carrying	and 11.		discovery		on			
				out division.				Doing the				
							Class	given	Problem			
							discussion	exercise	solving			
		NUMBE	Consecutive	The pupil	The learner	Example:	Class	Answering	Creative	А	MK	
1		R	counting / whole	should be able	describes the	1. The sum of three	discussion	the oral	thinking	chart	mtcs	
1		PATTER	numbers or	to:	meaning of	consecutive	alseussion	question	unnung	showi	bk6 pg	
&		NS AND	integers	1. find the	consecutive	counting numbers	Guided	question	Critical	ng	76	
a		SEQUEN	mugus	required	even, odd	is 36. Find these	discovery		thinking	how	10	
2		CES		consecutive	and whole	numbers	uiscovery	Doing the	uninking		Underst	
2		CES				numbers	hugingtonnin -	Doing the	Effective	to find		
				counting	numbers.		brainstorming	given	Effective		anding	
				numbers				exercise	communic	the	mtcs	
									ation	conse	bk6 pg	
										cutive	82	
										counti		

 			1	1			1		r		1	
										ng numb ers		
	N U M E R A C Y		Consecutive odd and even numbers	The pupil should be able to:- 1. Find the consecutive odd numbers 2. find the consecutive even numbers	The learner describes the meaning of consecutive even, odd and whole numbers	Example 1. The total of four consecutive odd numbers is 32. What are these numbers? 2. Find the three consecutive even numbers whose sum is 78	Class discussion Guided discovery Brain storming	Answering the oral questions Doing the class exercise	Critical thinking Cooperati on Problem solving	Chalk board summ ary	MK mtcs bk6 pg 76 Underst anding mtcs bk6 pg 86	
3		NUMBE R PATTER NS AND	More about consecutive even, odd and counting numbers	The pupil should be able to :- 1. Answer	The learner describes the meaning of	Example 1. The sum of three consecutive even numbers is 54.	Problem solving	Doing the class evaluation	Critical thinking	Chalk board	Supple mentary	
& 4		SEQUEN CES		questions involving more about consecutive even, odd and	consecutive even, odd and whole numbers	Find the numbers, given that y is the largest. 2. The median of three consecutive	Guided discovery Class discussion	exercise	Cooperati on Problem solving	illustr ation	revision book 5, 6, 7 page	
				counting numbers.		even numbers is n. Find the numbers if their total is 24.						