MATHEMATICS GRADE 6 SCHEME OF WORK TERM 1

SCHOOL	GRADE	LEARNING AREA	TERM	YEAR
	6	MATHEMATICS ACTIVITIES	1	

Week	Lesson	Strand	Sub Strand	Specific learning outcomes	Key inquiry questions	Learning experiences	Learning resources	Assessment	Remarks
1	1	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Identify place value of digits up to millions using place value apparatus. • Find the place value of digits up to millions using place value apparatus. • Appreciate finding place value of digits up to millions in real life	How do you find the place value of digits?	Learners in pairs/groups or as individuals to identify place value of digits up to millions using place value apparatus.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Watch a demonstration using digital devices on how to find place value of digits up to a million.	How do you find the place value of digits using digital devices?	Learners in pairs/groups or as individuals to identify place value of digits up to millions using digital devices	IT Devices, number cards, charts, Curriculum Design Mathematics activities	Oral questions, Written exercises, Observation	

				• Play digital games involving place value of digits up to a million • Appreciate using digital devices to find the place value of numbers			Grade 6		
	3	**Numbers**	Whole numbers	By the end of the lesson the leaner should be able to: • Identify total value of digits up to millions using place value apparatus. • Find the total value of digits up to millions using place value apparatus. • Appreciate finding total value of digits up to millions in real life	How do you find the total value of digits?	Learners in pairs/groups or as individuals to identify total value of digits up to millions using place value apparatus.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	4	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Watch a demonstration using digital devices on how to find total value of digits up to a million. • Play digital games involving total value of digits up to a million • Appreciate using	How do you find the total value of digits using digital devices?	Learners in pairs/groups or as individuals to identify total value of digits up to millions using digital devices.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				digital devices to find the total value of numbers					
	5	**Numbers**	Whole numbers	By the end of the lesson, the learner should be able to • Read numbers up to hundreds of thousands millions in symbols. • Write numbers hundreds of thousands millions in words. • Appreciate reading and using numbers up to millions in symbols in real life	How do you read numbers in symbols?	Learners in pairs/groups or as individuals to read numbers up to hundreds of thousands millions in symbols from number charts/ cards.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
2	1	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Use digital devices to read and write numbers up to millions in symbols. • Play digital games involving reading and writing numbers in symbols up to millions • Appreciate playing digital games involving reading numbers in symbols in real life	How do you read numbers in symbols?	Learners in pairs/groups or as individuals to use digital devices to read and write numbers up to hundreds of thousands millions in symbols. Play digital games involving numbers in symbols.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to; • Read and write	How do you write numbers in	Learners in pairs/groups or as individuals to read	IT Devices, number cards, charts,	Oral questions, Written	

				numbers up to 100,000 in words • Relate with numbers up to 100,000 in words in real life situations. • Appreciate reading and writing numbers up to 100,000 in words in real life.	words?	and write numbers up to hundreds of thousands in words from number charts/ cards.	Curriculum Design Mathematics activities Grade 6	exercises, Observation	
	3	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Use digital devices to read and write numbers up to 100, 000 in words. • Play digital games involving reading and writing numbers up to 100,000 in words in real life • Have fun reading and writing numbers up to 100,000 in words using digital devices	How do you write numbers in words?	Learners in pairs/groups or as individuals to read and write numbers up to hundreds of thousands in words using IT devices	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	4	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Order numbers in ascending order up to 100,000 in real life situations. • Form different numbers by	How do you order numbers in ascending order?	Learners in pairs/groups or as individuals to order numbers in ascending order. Learner to form different numbers by rearranging digits of	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				rearranging digits of a given number. • Appreciate ordering numbers up to 100,000 in ascending order in real life situations.		a given number.			
	5	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Order numbers in descending order up to 100,000 in real life situations. • Use IT devices to form different numbers by rearranging digits of a given number. • Appreciate ordering numbers up to 100,000 in descending order.	How do you order numbers in descending order?	Learners in pairs/groups or as individuals to order numbers in descending order. Learner to form different numbers by rearranging digits of a given number.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
3	1	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Observe a demonstration on how to round off numbers up to 100,000 in different situations. • Round off numbers up to 100,000 to the nearest thousand in different situations • Appreciate rounding off numbers up to 100, 000 in different	How do you round off numbers?	Learners in pairs/groups to round of numbers up to a thousand from number cards and share with other groups.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				situations					
	2	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Use digital devices to round off numbers up to 100,000 in to the nearest thousand. • Play digital games involving rounding off numbers up to 100,000 to the nearest thousand in different situations • Appreciate rounding off numbers up to 100, 000 in different situations	How do you round off numbers?	Learners in pairs/groups to round of numbers up to a thousand from number cards and share with other groups.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	3	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Identify what is the square of a number. • Find the squares of whole numbers up to 100 in different situations. • Appreciate finding the squares of numbers up to 100 in different situations.	How can you work out squares of numbers?	Learners in pairs/groups or as individuals to multiply a given number by itself and identify the answer as the square of the number.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	4	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Use digital devices to learn more about squares of whole	How can you work out squares of numbers?	Learners in pairs/groups or as individuals to multiply a given number by itself and	IT Devices, number cards, charts, Curriculum Design	Oral questions, Written exercises, Observation	

				numbers. • Play digital games on finding the squares of whole numbers up to 100 in different situations. • Appreciate using digital devices to learn about the squares of numbers up to 100 in different situations.		identify the answer as the square of the number.	Mathematics activities Grade 6		
	5	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to • Use digital devices to find the squares of whole numbers up to 100 in different situations. • Play digital games involving finding the squares of numbers. • Appreciate using digital devices to find the squares of whole numbers.	How do you find squares of numbers using IT devices?	In groups, Learners to use digital devices to find the squares of whole numbers up to 100 in different situations	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
4	1	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Identify the square root of a number. • Observe a demonstration on how to find the square root of numbers	How can you work out square roots of numbers?	Learners in pairs/groups or as individuals to identify the square root of a given number as a value which when multiplied by itself	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				• Appreciate the square roots of perfect squares.		results in the given number.			
	2	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Find the square root of perfect squares up to 10,000. • Apply square roots of perfect squares up to 10,000 in different situations • Appreciate applying square roots of perfect squares up to 10,000 in different situations.	How can you work out square roots of numbers?	Learners in pairs/groups or as individuals to identify the square root of a given number as a value which when multiplied by itself results in the given number.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	3	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Use digital devices to find the square root of perfect squares up to 10000 in different situations. • Play digital games involving finding the square root of numbers. • Appreciate using digital devices to find the square root of perfect squares in different situations.	How can you sort litter?	In groups, Learners to use digital devices to find the square root of perfect squares up to 10000 in different situations.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

	4	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Use it devices for learning more on whole numbers • Play digital games involving whole numbers for enjoyment • Appreciate use of whole numbers in real life situations.	Which digital game involves whole numbers?	Learners in pairs/groups or as individuals to play digital games involving whole numbers.	IT Devices, number cards, charts, Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	5	**Numbers**	Whole numbers	By the end of the lesson the learner should be able to: • Solve problems involving whole numbers • Engage in activities that involve the use of whole number in real life situations. • Appreciate the use whole numbers in real life situations.	Which digital game involves whole numbers?	Learners in pairs/groups or as individuals solve problems involving whole numbers Learners in pairs/groups or as individuals engage in activities that involve the use of whole number in real life situations.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
5	1	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Observe a demonstration on multiplying up to a 4-digit number by a 2-digit number using fact families.	Where is multiplication used in real life situations?	Learners in pairs/groups or as individuals to multiply up to a 4-digit number by a 2-digit number using; - fact families - skip counting	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				• Multiply up to a 4-digit number by a 2-digit number using fact families in real life situations. • Appreciate using fact families to multiplying numbers up to a 4-digit number by a 2-digit number in real life situations.		- multiplication chart - expanded form - IT devices.			
	2	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Use IT devices to observe a demonstration on multiplying up to a 4-digit number by a 2-digit number. • Multiply up to a 4-digit number by a 2-digit number in real life situations. • Appreciate multiplying numbers up to a 4-digit number by a 2-digit number in real life situations.	How do you multiply a 4-digit number by a 2-digit number?	Learners in pairs/groups or as individuals to multiply up to a 4-digit number by a 2-digit number using; - fact families - skip counting - multiplication chart - expanded form - IT devices.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	3	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Observe a demonstration on how to estimate products	How can you estimate products of numbers?	Learners in pairs/groups or as individuals to estimate products using;	IT Devices, number cards, charts, videos Curriculum Design	Oral questions, Written exercises, Observation	

				by rounding off numbers being multiplied to the nearest ten. • Estimate products by rounding off factors to the nearest ten in real life situations • Appreciate estimating product to the nearest ten by rounding off factors.		- rounding off factors - compatibility of numbers - own strategies.	Mathematics activities Grade 6		
	4	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Observe a demonstration on how to estimate products by compatibility of numbers being multiplied to the nearest ten. • Estimate products by compatibility of numbers being multiplied to the nearest ten in real life situations • Appreciate estimating product to the nearest ten by compatibility of numbers being multiplied.	How can you estimate products of numbers?	Learners in pairs/groups or as individuals to estimate products using; - rounding off factors - compatibility of numbers - own strategies.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

	5	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Use digital devices to observe patterns involving multiplication of numbers not exceeding 10,000. • Make patterns involving multiplication of numbers not exceeding 10,000 in different situations • Appreciate making patterns involving multiplication of numbers in different situations.	How can you form patterns involving multiplication?	Learners in pairs/groups or as individuals to make patterns involving multiplication with products not exceeding 10,000 using number cards.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
6	1	**Numbers**	Multiplication	By the end of the lesson the learner should be able to: • Use it devices for learning more on multiplication. • Play digital games involving multiplication for enjoyment. • Appreciate use of multiplication in real life.	Which games involves multiplication of numbers?	Learners in pairs/groups or as individuals to play digital games involving multiplication.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Division	By the end of the lesson the learner should be able to	Where is division	Learners in pairs/groups or as	IT Devices, number cards,	Oral questions,	

				• Observe a demonstration on how to divide up to a 4-digit number by up to a 3-digit number using relationship between multiplication and division. • Divide up to a 4-digit number by up to a 3-digit number using the relationship between multiplication and division where the dividend is greater than the divisor in real life situations • Appreciate using the relationship between multiplication and division in dividing numbers.	used in real life?	individuals to divide up to a 4-digit number by up to a 3-digit number where the dividend is greater than the divisor using; - relationship between multiplication and division - Long method.	charts, videos Curriculum Design Mathematics activities Grade 6	Written exercises, Observation	
	3	**Numbers**	Division	By the end of the lesson the learner should be able to • Observe a demonstration on how to divide up to a 4-digit number by up to a 3-digit number using long method. • Divide up to a 4-digit number by up to a 3-digit number using the	Where is division used in real life?	Learners in pairs/groups or as individuals to divide up to a 4-digit number by up to a 3-digit number where the dividend is greater than the divisor using; - relationship between	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

				long method where the dividend is greater than the divisor in real life situations • Appreciate using the long method in dividing numbers.		multiplication and division - Long method.			
	4	**Numbers**	Division	By the end of the lesson the learner should be able to • Observe a demonstration on how to estimate quotients by rounding off the dividend and divisor to the nearest ten. • Estimate quotients by rounding off the dividend and divisor to the nearest ten in real life situations. • Appreciate estimating quotients by rounding off the dividend and divisor to the nearest ten in real life situations.	How can you estimate quotients?	Learners in pairs/groups or as individuals work out quotients by rounding the dividend and divisor to the nearest ten.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	5	**Numbers**	Division	By the end of the lesson the learner should be able to • Work out quotients by rounding the dividend and divisor to the nearest ten. • Play digital games	How can you estimate quotients?	Learners in pairs/groups or as individuals work out quotients by rounding the dividend and divisor to the nearest ten.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities	Oral questions, Written exercises, Observation	

				involving estimating quotients by rounding off the dividend and divisor to the nearest ten. • Have fun estimating quotients by rounding off the dividend and divisor to the nearest ten in real life situations.			Grade 6		
7	1	**Numbers**	Division	By the end of the lesson the learner should be able to • Perform combined operations involving addition, subtraction, multiplication and division in different situations • Work out questions involving two, three or four operations, • Appreciate working our questions involving combined operations in different situations.	How can you work out questions involving combined operations?	Learners to work out questions involving two, three or four operations	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Division	By the end of the lesson the learner should be able to • Use IT devices for learning more on division of whole numbers.	Which digital games involve division?	In groups learners to use IT devices for learning more on division of whole numbers. Learners play digital	IT Devices, number cards, charts, videos Curriculum Design Mathematics	Oral questions, Written exercises, Observation	

				• Play digital games involving division for enjoyment. • Appreciate use of division of whole numbers in real life.		games involving division.	activities Grade 6		
	3	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Identify what LCM is. • Find the multiples of given numbers • Appreciate finding the multiples of given numbers.	What is LCM of numbers?	Learners in pairs / groups or as individuals to identify multiples of numbers given from number cards.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	4	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Identify LCM of given numbers in different situations • Show the multiples of given numbers when finding LCM • Appreciate working out the LCM of given numbers.	What is LCM of numbers?	Learners in pairs / groups or as individuals to identify LCM of numbers given from number cards.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	5	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to add fractions using	Where are squares and fractions used in real life?	Learners in pairs/groups to add and subtract fractions using LCM by listing multiples.	IT Devices, number cards, charts, videos Curriculum Design	Oral questions, Written exercises, Observation	

				LCM in different situations • Add fractions using LCM in different situations • Appreciate adding fractions using LCM in different situations			Mathematics activities Grade 6		
8	1	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Practice adding fractions using LCM • Use IT devices to add fractions using LCM in different situations. • Appreciate adding fractions using LCM in different situations	How do you add fractions using their multiples?	Learners in pairs/groups to add and subtract fractions using LCM by listing multiples.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to subtract fractions using LCM in different situations • Subtract fractions using LCM in different situations • Appreciate subtracting fractions using LCM in different situations	How do you subtract fractions using their multiples?	Learners in pairs/groups to add and subtract fractions using LCM by listing multiples.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	3	**Numbers**	Fractions	By the end of the lesson the learner should be able to	How do you subtract	Learners in pairs/groups to add	IT Devices, number cards,	Oral questions,	

				• Practice subtracting fractions using LCM in different situations • Use IT devices to subtract fractions using LCM in different situations • Appreciate subtracting fractions using LCM in different situations	fractions using their multiples?	and subtract fractions using LCM by listing multiples.	charts, videos Curriculum Design Mathematics activities Grade 6	Written exercises, Observation	
	4	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to add mixed fractions • Add mixed fractions in different situations. • Appreciate adding mixed fractions in different situations.	How do you add mixed fractions?	Learners in pairs/groups or as individuals to add and subtract mixed fractions by converting the fractions to improper fractions.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	5	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to subtract mixed fractions • Subtract mixed fractions in different situations. • Appreciate subtracting mixed fractions in different situations.	How do you subtract mixed fractions?	Learners in pairs/groups or as individuals to add and subtract mixed fractions by adding and subtracting whole number and fraction parts separately.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	

9	1	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Identify reciprocal of fractions for use in different situations • Work out the reciprocal of fractions for use in different situations • Appreciate using the reciprocal of fractions in different situations	How do you find the reciprocal of a fraction?	Learners in pairs/groups or as individuals to discuss the results and identify the reciprocal of a fraction. Learners in pairs/groups or as individuals to multiply fractions by whole numbers to get one.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	2	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to work out squares of fractions in different situations. • Work out squares of fractions in different situations. • Appreciate working out squares of fractions in different situations.	What are the squares of fractions?	Learners in pairs/groups or as individuals to work out squares of fractions through multiplication practically.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	3	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Observe a demonstration on how to convert fractions to	How do you convert fractions to equivalent fractions?	Learners in pairs/ groups or as individuals to convert fractions to equivalent fractions	IT Devices, number cards, charts, videos Curriculum Design	Oral questions, Written exercises, Observation	

				equivalent fractions with denominator 100. • Convert fractions to equivalent fractions with denominator 100 in different situations • Appreciate converting fractions to equivalent fractions in different situations.		with denominator 100 through multiplication.	Mathematics activities Grade 6		
	4	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Identify percentage as a fraction for use in different situations Convert fractions to percentages in different situations. • Appreciate use of percentages in real life situations	How do you convert fractions to percentages ?	Learners in pairs/groups or as individuals to identify a percentage as a fraction with denominator 100 Learners in pairs/ groups to discuss real life situations where percentages are used.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
	5	**Numbers**	Fractions	By the end of the lesson the learner should be able to • Convert percentages to fractions in different situations • Use IT devices for learning more on fractions • Appreciate use of fractions in real life	Where are fractions applied in real life?	Learners in pairs/ groups or as individuals to convert fractions to percentages and percentages to fractions. Learners to play digital games involving fractions.	IT Devices, number cards, charts, videos Curriculum Design Mathematics activities Grade 6	Oral questions, Written exercises, Observation	
10				**END TERM ASSESSMENT**					