

CONTENT DISTRIBUTION**SUBJECT: MATHEMATICS****Class: Primary 3****Number of periods per week: 8****1ST TERM**

UNIT 1: WHOLE NUMBERS FROM 0 UP TO 2000		Periods 40
Key unit competence To be able to count, read, write, order, compare, add, multiply and divide numbers from 0 to 2000		
Weeks	Lesson title	Number of periods
1	Introductory activity	1
	Reading numbers from 0 to 2 000 in figures	1
	Writing numbers from 0 to 2 000 in words	1
	Reading numbers from 0 to 2 000 in words	1
	Writing numbers from 0 to 2 000 in words	1
	Partition a number between 0 and 2 000 into ones, tens, hundreds and thousands	1
	Comparing numbers less than or equal to 2 000	2
2	Arranging numbers less than or equal to 2 000 in ascending order	1
	Arranging numbers less than or equal to 2 000 in descending order	1
	Addition of numbers whose sum does not exceed 2000 without carrying.	2
	Addition of numbers whose sum does not exceed 2000 with carrying.	2
	Word problems involving addition of numbers whose sum does not exceed 2000	2
3	Subtraction of numbers within 2 000 without borrowing	2
	Subtraction of numbers within 2 000 with borrowing	2
	Word problems involving subtraction of numbers within 2 000	2
	Multiples of 7 not exceeding 70	1
	Multiples of 8 not exceeding 80	1
4	Multiples of 9 not exceeding 90	1

	Multiplication of a number by a single digit number (7,8 or 9) where the product does not exceed 2 000	2
	Multiplication by 100 or 1000 where the product does not exceed 2 000	1
	Multiplication of a 2 or 3 digit number by a 2 digit number numbers where the product does not exceed 2 000	2
	Word problems involving multiplication of a 3 digit number by a single digit number where the product does not exceed 2 000	2
5	Division without a remainder of a 4 digit number less than 2000 by a one digit number	2
	Word problems involving the division of a number less than 2000 by a one digit number.	2
	Word problems involving addition and subtraction	1
	Word problems involving multiplication and division	1
	End unit assessment	2
UNIT 2: WHOLE NUMBERS FROM 0 UP TO 5000		Periods 40
Key unit competence: To be able to Count, read, write, expand, decompose, order, compare, add, subtract, multiply, divide whole numbers less than or equal to 5000		
Weeks	Lesson title	Number of periods
6	Introductory activity	1
	Reading numbers from 0 to 5 000 in figures	1
	Writing numbers from 0 to 5 000 in figures	1
	Reading numbers from 0 to 5 000 in words	1
	Writing numbers from 0 to 5 000 in words	1
	Partition a number between 0 and 5 000 into ones, tens, hundreds and thousands	1
	Comparing numbers less than or equal to 5 000	2
7	Arranging numbers less than or equal to 5 000 in ascending order	2
	Arranging numbers less than or equal to 5 000 in descending order	2

	Addition of numbers whose sum does not exceed 5 000 without carrying	2
	Addition of numbers whose sum does not exceed 5 000 with carrying	2
8	Word problems involving addition of numbers whose sum does not exceed 5 000	2
	Word problems involving addition of numbers whose sum does not exceed 5 000 (cont)	1
	Subtraction of numbers within 5 000 without borrowing	2
	Subtraction of numbers within 5 000 with borrowing	2
	Subtraction of numbers within 5 000 with borrowing (cont)	1
9	Word problems involving subtraction of numbers within 5 000	2
	Multiplication of a 3 digit number by a 2 digit number where the product does not exceed 5 000	2
	Multiply numbers by 100 and 1 000 where the product does not exceed 5000	2
	Word problems involving multiplication of a 3 digit number by a 2 digit number where the product does not exceed 5 000	2
10	Division without a remainder of a 4 digit number less than 5 000 by a one digit number	2
	Word problems involving the division of a number less than 5000 by a one digit number.	2
	Word problems involving addition and subtraction	1
	Word problems involving multiplication and division	1
	End unit assessment	2
UNIT 3: WHOLE NUMBERS FROM 0 UP TO 10 000		Periods 16/40
Key unit competence: To be able to Count, read, write, order, decompose, expand, compare, add, subtract and divide whole numbers up to 10 000		
Weeks	Lesson title	Number of periods
11	Introductory activity	1
	Reading numbers from 0 to 10 000 in figures	1

	Writing numbers from 0 to 10 000 in figures	1
	Reading numbers from 0 to 10 000 in words	1
	Writing numbers from 0 to 10 000 in words	1
	Partition a number between 0 and 10 000 into ones, tens, hundreds and thousands	3
12	Comparing numbers less than or equal to 10 000	2
	Arranging numbers less than or equal to 10 000 in ascending order	2
	Arranging numbers less than or equal to 10 000 in descending order	2
	Addition of numbers whose sum does not exceed 10 000 without carrying	2
13	1 ST TERM EXAMS	

2ND TERM

UNIT 3: WHOLE NUMBERS FROM 0 UP TO 10 000		Periods 24/40
Key unit competence: To be able to Count, read, write, order, decompose, expand, compare, add, subtract and divide whole numbers up to 10 000		
Weeks	Lesson title	Number of periods
1	Addition of numbers whose sum does not exceed 10 000 with carrying	2
	Word problems involving addition of numbers whose sum does not exceed 10 000	2
	Subtraction of numbers within 10 000 without borrowing	2
	Subtraction of numbers within 10 000 with borrowing	2
2	Word problems involving subtraction of numbers within 10 000	2
	Multiplication of a 3 digit number by a 2 digit number where the product does not exceed 10 000	2
	Multiply numbers by 100 and 1 000 where the product does not exceed 10 000	2
	Word problems involving multiplication of a 3 digit number by a 2 digit number where the product does not exceed 10 000	2

3	Division without a remainder of a 4 digit number less than 10 000 by a one digit number	2
	Word problems involving the division of a number less than 10 000 by a one digit number.	2
	Word problems involving addition and subtraction	1
	Word problems involving multiplication and division	1
	End unit assessment	2

UNIT 4: FRACTIONS HAVING A DENOMINATOR LESS THAN OR EQUAL TO 10

Periods 16

Key unit competence

To be able to read, write, draw, add and subtract fractions with the same denominator less than or equal to 10 and multiplying fractions with a whole number.

Weeks	Lesson title	Number of periods
4	Reading and writing fractions not exceeding a whole and having a denominator less than or equal to 10	2
	Shading colours and illustrating fractions not exceeding a whole	2
	Comparing fractions not exceeding a whole and having a denominator less than or equal to 10	2
	Addition of fractions having common denominators less than or equal to 10 but not exceeding a whole	2
5	Subtraction of fractions having common denominators less than or equal to 10 but not exceeding a whole.	2
	Finding the complement of a fraction for forming a unit fraction	1
	Fraction of a number for real objects	1
	Fraction of a whole number	1
	Word problem involving fraction of a whole number	2
	End unit assessment	1

UNIT 5: LENGTH MEASUREMENTS

Periods 16

Key unit competence

To be able to measure, convert, compare, add, and subtract length measurements and multiply/divide length measurements by a whole number.

Weeks	Lesson title	Number of periods
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6	Introductory activity	1
	Measuring the length of objects	1
	Relationship between length measurements and their conversion	2
	Comparing length measurements	2
	Arranging objects according to their lengths	2
7	Addition of length measurements	2
	Subtraction of length measurements	1
	Multiplying length measurements by a whole number	1
	Dividing length measurement by a whole number	1
	Problems involving length measurements	2
	End unit assessment	1
UNIT 6: MASS MEASUREMENTS FROM KILOGRAM TO GRAM		Periods 16
Key unit competence To be able to measure, and compare the weight of different objects not exceeding 10kg, add, subtract, multiply and divide mass measurements from kg up to g.		
Weeks	Lesson title	Number of periods
8	Introductory activity	1
	Measuring, reading and writing the mass of objects	1
	Relationship between mass measurements and their conversion	2
	Comparing mass measurements	2
	Arranging objects according to their mass	2
9	Addition of mass measurements	2
	Subtraction of mass measurements	2
	Multiplying mass measurements by a whole number	1
	Dividing mass measurement by a whole number	1
	Problems involving mass measurements	1
	End unit assessment	1
UNIT 7: CAPACITY MEASUREMENT FROM LITER (l) TO MILLILITER (ml)		Periods 16
Key unit competence: To be able to measure and compare the capacity of different objects in liter, add, subtract, multiply and divide of capacity measurements from liter (l) to milliliter (ml).		
Weeks	Lesson title	Number of periods
10	Introductory activity	1

	Measuring the capacity measurements	1
	Reading and writing the capacity measurements	1
	Relationship between capacity measurements and their conversion	2
	Comparing capacity measurements	1
	ordering capacity measurements	2
11	Addition capacity measurements	1
	Subtraction of capacity measurements	1
	Multiplying capacity measurements by a whole number	1
	Dividing capacity measurements by a whole number	1
	Problems involving capacity measurements	2
	End unit assessment	2
UNIT 8: RWANDAN CURRENCY FROM 1 Frw UP TO 5000 Frw.		Periods 8/16
Key unit competence: To be able to use appropriately Rwandan currency from 1 Frw up to 5000 Frw.		
Weeks	Lesson title	Number of periods
12	Introductory activity	1
	Characteristics and values of Rwandan currency from 1 Frw up to 5000Frw	1
	Changing Rwandan currency from 1 Frw up to 5000 Frw	2
	Word problems involving addition of Rwandan currency from 1 Frw up to 5000 Frw	2
	Word problems involving subtraction of Rwandan currency from 1 Frw up to 5000 Frw	2
13	2nd TERM EXAMS	

3rd TERM

UNIT 8: RWANDAN CURRENCY FROM 1 Frw UP TO 5000 Frw.		Periods 8/16
Key unit competence: To be able to use appropriately Rwandan currency from 1 Frw up to 5000 Frw.		
Weeks	Lesson title	Number of

		periods
1	Word problems involving multiplication of Rwandan currency from 1 Frw up to 5000Frw	1
	Word problems involving division of Rwandan currency from 1 Frw up to 5000 Frw by a whole number	2
	Buying and selling	2
	Saving and small income generating projects	2
	End unit assessment	1

UNIT 9: TIME MEASUREMENTS	Periods 24
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Key unit competence:

To be able to Read, and write the time shown clock faces or digital watches, use a calendar to show months of the year, days of each month and make a list of daily, weekly and monthly activities.

Weeks	Lesson title	Number of periods
2	Introductory activity	1
	Reading, telling and writing an hour O'clock / Exact time	1
	Reading, telling and writing half past or thirty minutes past an hour	2
	Reading, telling and writing a half to an hour.	2
	Reading, telling and writing quarter past or fifteen minutes past an hour	2
3	Reading, telling and writing a quarter to an hour	2
	Use of a calendar	2
	Converting days into hours	2
	Converting weeks into days	2
4	Converting years into months	2
	Ordinary year and leap year	2
	Planning daily, weekly and monthly activities	2
	End unit assessment	2

UNIT 10: TYPES OF LINES AND ANGLES	Periods 16
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Key unit competence: To be able to identify and draw parallel, perpendicular and intersecting lines, draw and compare right, acute and obtuse angles.

Weeks	Lesson title	Number of periods
5	Straight lines	1

	Straight parallel lines	1
	Straight perpendicular lines	1
	Straight intersecting lines	1
	Right angle	1
	Obtuse angle and Acute angle	2
	Obtuse angle and Acute angle (cont)	1
6	Measuring angles.	2
	Drawing angles.	2
	Comparing angles	2
	End unit assessment	2

UNIT 11: SQUARE, RECTANGLE, TRIANGLE AND CIRCLE

Periods 16

key unit competence: To be able to draw and describe a square, rectangle, triangle and circle, and find the perimeter of a square, rectangle, and triangle.

Weeks	Lesson title	Number of periods
7	Properties of a square	1
	Perimeter of a square	1
	Properties of a rectangle	1
	Perimeter of a rectangle	2
	General properties of a triangle	2
	Properties of an equilateral triangle	1
8	Properties of an isosceles triangle	1
	Properties of a right angled or right triangle	1
	Properties of a scalene triangle	1
	Perimeter of a triangle	2
	Properties of a circle	2
	Unit assessment	1

UNIT 12: GRIDS		Periods 8
Key unit competence: To be able to draw grids, plot points or geometric figures on the grid according to its posts and crossing bars.		
Weeks	Lesson title	Number of periods
9	Properties of a grid: Posts and crossing bars.	2
	Locating a point on a grid	2
	Drawing a square on a grid.	1
	Drawing a rectangle on a grid.	1
	Drawing a triangle on a grid.	1
	Unit assessment	1
UNIT 13: FINDING MISSING NUMBER IN MATHEMATICS EXPRESSION INVOLVING ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION.		Periods 16
Key unit competence: To be able to find the missing number using rules of counting.		
Weeks	Lesson title	Number of periods
10	Finding missing number in addition	1
	Finding missing number in subtraction	1
	Finding missing number in multiplication	1
	Finding missing number in division	1
	Equations involving addition	1
	Equations involving subtraction	1
	Equations involving multiplication	1
	Equations involving division	1
11	Finding the common difference in ascending (increasing) number pattern	2
	Finding the common difference in a descending (decreasing) number pattern	2

	Finding the missing number in a number pattern	2
	Unit assessment	2
UNIT 14: PICTOGRAPHS		Periods 8
Key Unit Competence: To be able to analyse and describe the information on a pictograph.		
Weeks	Lesson title	Number of periods
12	Introductory activity	1
	Numbers of objects on a pictograph	1
	Representation of objects on a pictograph	1
	Finding the number of objects on a pictograph	2
	Drawing a pictograph with the given information or objects	2
	Unit assessment	1
13	3rd TERM EXAMS	