

CONTENT DISTRIBUTION

SUBJECT: MATHEMATICS

Class: Primary 5

Number of period per week: 8 periods

Term 1

UNIT 1: Reading, writing, comparing and calculating whole numbers up to 1 000 000 (32 periods)		
Key unit Competence: Read, write, compare and make calculations on whole numbers up to 1 000 000.		
Week	Content	Number of Periods
1	Introductory activity 1	1
	Reading and writing numbers up to 1,000,000 in words	1
	Forming and reading numbers by the use of number cards	1
	Reading and writing numbers up to 1,000,000 in figures	1
	Place Values of whole Numbers up to 7 digits	1
	Comparing Numbers using $<$, $>$ or $=$	2
	Addition of 3 or more whole numbers of 7 digits without carrying	1
2	Using a local abacus to add whole numbers	1
	Addition of 3 or more whole numbers of 7 digits with carrying	1
	Solve real life problems involving addition of numbers	1
	Subtraction of 2 numbers of 7 digits without borrowing	1
	Subtraction of 2 numbers of 7 digits with borrowing	1
	Solve real life problems involving subtraction	1
	Multiplying whole numbers by a 3 digits number	2
3	Product of a 3 digit number by 5 and quick multiplication by 5	2
	Product of a 3 digit number by 90 and quick multiplication by 9	1
	Product of a 3 digit number by 11 and quick multiplication by 11	1
	Product of a 3 digit number by 19 and quick multiplication by 19	1
	Product of a 3 digit number by 25 and quick multiplication by 25	1
	Product of a 3 digit number by 49 and quick multiplication by 49	1
	Product of a 3 digit number by 99 and quick multiplication by 99	1
4	Solve real life problems involving multiplication	1
	Division without a remainder of a 3 digits number by a 2 digit number	2
	Division by a 2 digit number with a Remainder	2
	Solve real life problems involving addition, subtraction, multiplication or division of whole numbers	2
	End unit assessment	1
UNIT 2: Addition and subtraction of integers (16 periods)		
Key Unit Competence: Solve problems related to comparing, ordering, and finding the distance between negative and positive integers		
Week	Content	Number of Periods
5-6	Introductory activity 2	1
	Location of positive and negative numbers on a number line	1

	Comparing integers using a number line and symbols $<$, $>$ or $=$	2
	Ordering integers using a number line and symbols $<$ or $>$	1
	Addition of integers: Using a counters and a number line	1
	Addition of integers by calculations	2
	Subtraction of integers: using counters and a number line	1
	Subtraction of integers: without using counters and a number line (calculations)	2
	Additive inverses (opposite) of numbers	2
	Solve problems involving addition and subtraction of integers.	2
	End unit assessment	1
UNIT 3: Prime factorization and divisibility tests (16 periods)		
Key unit Competence: Prime factorize, show the rule of divisibility tests less than 13, find the Lowest Common Multiple (LCM) and the Greatest Common Factor (GCF) of whole numbers		
Week	Content	Number of Periods
7	Introductory activity 3	1
	Prime factorization of numbers and its uniqueness	1
	Using indices as short form for repeated factors	1
	Calculation of the Lowest Common Multiple (LCM)	1
	Calculation of Greatest Common Factors (GCF)	1
	Divisibility test for 2	1
	Divisibility test for 3	1
	Divisibility test for 4	1
8	Divisibility test for 5	1
	Divisibility test for 6	1
	Divisibility test for 8	1
	Divisibility Test for 9	1
	Divisibility Test for 10	1
	Divisibility test for 11	1
	Divisibility test for 12	1
	End unit assessment	1
UNIT 4: Equivalent fractions and operations (24 periods)		
Key unit Competence: Add, subtract and find equivalent fractions		
Week	Content	Number of Periods
9	Introductory activity 4	1
	Exploring and comparing fractions using models	1
	Illustration of equivalence of fractions using models	1
	Concept of equivalent fractions using models.	1
	Determination of equivalent fractions	1
	Calculation of equivalent fractions	1
	Addition of fractions with different denominators using models or circle set fractions	1

	Subtraction of fractions with different denominators using models or circle set fractions	1
10-11	Addition of fractions with different denominators using equivalent fractions	1
	Subtraction of fractions with different denominators using equivalent fractions	1
	Addition of fractions with different denominators using LCM	2
	Subtraction of fractions with different denominators using LCM	2
	Addition of more fractions with different denominators	1
	Subtraction of more fractions with different denominators	1
	Addition of mixed numbers and fractions with different denominators	1
	Subtraction of mixed numbers and fractions with different denominators	1
	Solving Word problems involving addition of fractions	2
	Solving Word problems involving subtraction of fractions	2
	End unit assessment	2
UNIT 5: Multiplication and division of decimals (8/24 periods)		
Key Unit Competence: Multiply, divide and compare decimal numbers up to 3 decimal places		
Week	Content	Number of Periods
12	Introductory activity 5	1
	Illustration of the concept of decimal fractions through examples	1
	Place value of decimals	2
	Comparing and ordering decimal numbers using number cards	2
	Conversion of fractions to decimals	2
13	EXAMS	

TERM 2:

UNIT 5: Multiplication and division of decimals (16/24 periods)		
Key Unit Competence: Multiply, divide and compare decimal numbers up to 3 decimal places		
Week	Content	Number of Periods
2-3	Conversion of decimals to fractions	2
	Matching fractions to decimals	2
	Multiplication of decimal fractions	2
	Division of decimal fractions	2
	Division of decimal fractions	2
	Mixed operations for multiplication and division	2
	Problems involving multiplication of decimals	2
	Problems involving multiplication and division of decimals	1
	End unit assessment	1
UNIT 6: Application of direct proportions (16 periods)		
Key Unit Competence: Apply direct proportions in a practical context		

Week	Content	Number of Periods
4-5	Introduction activity 6	1
	Concept of direct proportion	2
	Ratios and direct proportion	2
	Constant of proportionality and the application of direct proportion in real life	2
	scale drawing and direct proportion	3
	Problems involving ratios	2
	Problems involving direct proportion	2
	End unit assessment	2
UNIT 7: Solving problems involving measurements of length, capacity and mass (8 periods)		
Key Unit Competence: Solve problems involving measurements of length, capacity, mass and calculating number of intervals		
Week	Content	Number of Periods
6	Introductory activity 7	1
	Revision on problems on length, capacity and mass	1
	Number of intervals (fixed distance) between objects on an open line	2
	Finding the number of intervals on a closed line	2
	Interpreting decimal representations up to 3 decimal places	1
	End unit assessment	1
UNIT 8: Solving problems involving time intervals (24 Periods)		
Key Unit Competence: Solve real life problems that involve finding time intervals and conversion of units		
Week	Content	Number of Periods
7	Introductory activity 8	2
	Converting hours into minutes	2
	Converting minutes into hours	2
	Converting hours into seconds	2
8-9	Changing days into hours	3
	Changing hours into days	3
	Finding time intervals or time taken by an event: Using clock face, watch and calendar	5
	Real life problems that involve addition and Subtraction of time	4
	End unit assessment	1
UNIT 9: Money and its financial applications (24 Periods)		
Key Unit Competence: Explain money and its financial applications		
Week	Content	Number of Periods

10-11	Introductory activity	1
	Uses and role of money in our lives	2
	Sources of money	2
	Budgeting	2
	Setting priorities	1
	Establishing a budget of what comes in and what goes out and setting priorities of a family	2
	Ways of transferring money: ATM, cheques, cash, money transfer, and using a mobile phone	3
	Saving (protecting) money	3
12	Borrowing money (borrowing is not free).	3
	Different currencies and converting currencies	3
	End unit assessment	2
13	Exams	

TERM 3

UNIT 10: Sequences that include whole numbers, fractions and decimals (24 periods)

Key Unit Competence: Write sequences of whole numbers, fractions and decimals

Week	Content	Number of Periods
1	Introductory activity 10	1
	Ordering whole numbers according to their size in increasing order	1
	Ordering whole numbers according to their size in decreasing order	2
	Introduction to simple sequences	1
	Simple sequences that include fractions	2
	Forming different number patterns by using charts/flash cards, number cards or fraction cards	1
2	Simple sequences that include decimals	2
	Sequence with constant differences	3
	Sequences with constant ratios	3
3	Sequences with regularly changing differences	3
	Sequences where the difference is geometric	3
	End unit assessment	2

UNIT 11: Drawing and constructing of angles (24 Periods)

Key Unit Competence: Draw and construct different angles

Week	Content	Number of Periods
4	Introductory activity 11	1
	Construction of different angles with a protractor	1
	Bisection of angles (Using folding)	1
	Bisecting angles using a pair of compasses and a ruler	1
	Constructing 90°, 45° and 22.5° angles	1
	Constructing 60°, 30° and 15° angles	1
	Constructing angles 120° and 150° angles	2
5-6	Identify different lines and angles formed on real objects	2

	Perpendicular lines	1
	Parallel lines, intersecting lines and transversals	2
	Properties related to angles formed by intersecting lines	2
	Angle properties of parallel lines: Corresponding angles,	2
	Angle properties of parallel lines: Alternate angles	2
	Angle properties of parallel lines: Co-interior angles,	2
	Sum of Angles of a triangle	2
	End unit assessment	1
UNIT 12: Interpreting and constructing scale drawings (8 Periods)		
Key Unit Competence: Interpret and construct scale drawings		
Week	Content	Number of Periods
7	Introductory activity 12	1
	Concept of scale drawing through examples of actual distances/sizes and the distance/size on a map	1
	Finding scale: Establishing the scale of a real object to be drawn on a sheet of paper	1
	Construction of scale drawings	1
	Finding actual distance	1
	Finding the drawing length	1
	Real life problems involving scale drawings	1
	End unit assessment	1
UNIT 13: Calculating circumference of a circle and volume of cuboids and cubes (16 Periods)		
Key Unit Competence: Calculate circumference of a circle and volume of cuboids and cubes		
Week	Content	Number of Periods
8	Introductory activity 13	1
	Circumference of circular objects	1
	Finding the number pi (π)	2
	Cubes and cuboids and their properties	2
	Nets of cubes and cuboids	2
9	Calculating the volume of cubes and cuboids	2
	Finding the area of a face of a cuboid	2
	Finding one dimension of a cuboid	1
	Find the height of a cuboid given its volume and base area	2
	End unit assessment	1
UNIT 14: Statistics (24 periods)		
Key Unit Competence: Collect data, represent and interpret it in order to answer a question or explore a hypothesis		
Week	Content	Number of Periods
10-11	Introductory activity	2
	Definition and examples of quantitative data	3
	Definition and examples of Discrete data	2

	Definition and examples of Continuous data	2
	Record data using tally and tables	3
	Representing data using bar charts	3
	Interpreting bar charts to draw a conclusion	1
12	Representing data using line graphs	3
	Interpreting line graphs to draw a conclusion	3
	End unit assessment	2
UNIT 15: Probability (8 periods)		
Key Unit Competence: Conduct experiments to decide how likely something is to happen		
Week	Content	Number of Periods
13	Introductory activity	1
	Representing the outcomes of a die tossed many times	1
	Vocabulary of chance: experiment, outcomes, equal chance, certain, impossible, equally likely, less likely, likely, more likely.	1
	Event and related concepts: certain event, impossible event, uncertain event	2
	Conducting experiments, predict the outcomes and decide how likely something is to happen (use less likely or more likely).	2
	End unit assessment	1
14	Exams	