

CONTENT DISTRIBUTION

SUBJECT: MATHEMATICS

Class: Primary 6

Number of period per week: 8 periods

Term 1

UNIT 1: Reading, writing and comparing whole numbers beyond 1 000 000 (24 periods)		
Key unit Competence: To be able read, write and compare whole numbers beyond 1 000 000		
Week	Content	Number of Periods
1	Introductory activity	1
	Forming numbers beyond 1,000,000 by using number cards or given digits, reading and writing the formed numbers.	1
	Reading and writing numbers beyond 1,000,000 in figures	1
	Place Values of whole Numbers up to 7 digits	1
	Comparing Numbers using $<$, $>$ or $=$	1
	Arranging numbers in ascending and descending order	1
	Addition of whole numbers beyond 1,000,000	1
	Solving related real life problems involving addition of whole numbers beyond 1,000,000	1
2	Addition and subtraction of whole numbers using wooden vertical abacus	2
	Subtraction of numbers beyond 1,000,000	2
	Solve real life problems involving subtraction of numbers beyond 1,000,000	1
	Multiplying numbers beyond 1,000,000	2
	Solving problems using calculation strategies on multiplication	1
3	Dividing numbers beyond 1,000,000	2
	Solving problems using calculation strategies on division	1
	Rounding off whole numbers to the nearest tens	2
	Rounding off whole numbers to the nearest hundred and thousands	1
	Rounding off whole numbers to the nearest ten thousands, hundred thousand and millions	1
	End unit assessment	1
UNIT 2: Multiplication and division of integers (8 periods)		
Key Unit Competence: To be able to multiply and divide integers		
Week	Content	Number of Periods
4	Introductory activity	1
	Multiplying integers using counters	1
	Multiplying integers using a number line	1
	Multiplying integers without using a number line	1
	Dividing integers using a number line	1
	Dividing integers without using a number line	1
	Solving problems involving multiplication and division of integers	1
	End unit assessment	1

UNIT 3: Powers and indices, LCM and GCF (16 periods)		
Key unit Competence: To be able to use powers and indices, and apply the Lowest Common Multiple (LCM) and the Greatest Common Factor (GCF) when solving problems		
Week	Content	Number of Periods
5	Introduction to Indices	1
	Defining base and exponent	1
	Multiplying and the law of multiplication of indices	2
	Dividing and the law of division of indices	1
	Multiplying and dividing indices	1
	Finding unknown and the law of multiplying indices	1
	Finding the unknown and the law of dividing indices	1
6	Finding the lowest common multiple (LCM) of numbers	1
	Solving problems involving LCM	2
	Factors of a whole number	1
	Finding the greatest common factor (GCF) of numbers	1
	Solving problems involving GCF	1
	Finding the unknown number using LCM and GCF	1
	End unit assessment	1
UNIT 4: Operations on fractions (16 periods)		
Key unit Competence: To be able to apply fractions in daily life situations and solve related problems		
Week	Content	Number of Periods
7	Introductory activity	1
	Multiplying a whole number by a fraction	1
	Multiplying a fraction by a whole number	2
	Multiplying a fraction by a fraction	2
	Finding reciprocals	1
	Dividing a whole number by a fraction	2
8	Dividing a fraction by a whole number	1
	Dividing a fraction by a fraction	2
	Multiplying and dividing fractions	2
	Solve problems involving multiplication and division fractions	2
	End unit assessment	1
UNIT 5: Rounding and conversion of decimals fractions/numbers (16 periods)		
Key Unit Competence: To be able to round off decimals, convert fractions to decimals and vice versa, matching fractions and decimals.		
Week	Content	Number of Periods
9	Introductory activity	1
	Rounding off decimal numbers to the nearest tenths	1
	Rounding off decimal numbers to the nearest hundredths	1
	Rounding off decimal numbers to the nearest thousandths	2
	Rounding off decimal numbers to the nearest ten thousandths	1
	Rounding off decimal numbers to the nearest hundred thousandth	1

	Rounding off decimal numbers to the nearest millionths	1
10	Solving problems involving rounding off decimal numbers	1
	Converting fractions into decimals	2
	Converting decimals into fractions	2
	Solving problems involving converting decimals into fractions and fractions into decimals	2
	End unit assessment and remediation	1

UNIT 6: Ratios, proportions, percentages and mixtures (8/40 periods)		40 periods
Key Unit Competence: To be able to work out ratios, proportions, percentages and mixtures		
Week	Content	New number of periods
11	Introductory activity	1
	Converting percentages into decimals	1
	Converting decimals into percentages	1
	Converting percentages into fractions	1
	Converting fractions into percentages	1
	Comparing quantities as percentages	1
	Comparing percentages as quantities	2
12	Exam	

TERM 2

UNIT 6: Ratios, proportions, percentages and mixtures (32/40 periods)		
Key Unit Competence: To be able to work out ratios, proportions, percentages and mixtures		
Week	Content	Number of Periods
1	Increasing a Number by a Percentage	2
	Decreasing a number by a percentage	2
	More about increasing and decreasing quantities by percentage	2
	Finding percentage increase and decrease	2
3	Finding percentage profit and percentage loss	1
	Solving problems involving percentages	2
	Finding ratios	1
	Sharing quantities in ratios	2
	Increasing and decreasing quantities in ratios	2
4	Finding the ratio of increase and decrease	2
	Solving problems involving ratios	2

	Finding indirect proportions	1
	Finding the average price of a mixture	2
	Finding quantity of one type of the mixture	1
5	Finding the price of one type of ingredient in the mixture	3
	Finding both quantities of a mixture	2
	Solving problems involving ratios, percentages, mixtures and inverse proportions	2
	End unit assessment	1
UNIT 7: Relationship between volume, capacity and mass (8 periods)		
Key Unit Competence: To be able to convert between units of volume, capacity and mass of water		
Week	Content	Number of Periods
6	Introductory activity and revision on capacity measurements	1
	Revision on mass Measurements	1
	Measurement of volume	2
	Relationship between units of volume, capacity and mass	2
	Real life problems involving the conversion between units of volume, capacity and mass	1
	End unit assessment	1
UNIT 8: Speed, distance and time (24 Periods)		
Key Unit Competence: To be able to calculate speed, distance and time, solve problems that relate to different time zones and convert speed from km/hr to m/sec and vice versa		
Week	Content	Number of Periods
7	Introductory activity	1
	Comparing the 12-hour format to the 24-hour format	1
	Converting 12-hr format to 24-hr format and vice versa	1
	The Concept of time zones	1
	Solving mathematical problems relating to time zones	2
	Speed in the motion	2
8	Converting the speed from km/hr to m/sec	2
	Converting the speed from m/sec to km/hr.	2
	Distance covered by a moving body	2
	Speed and the time taken by a moving body to cover a certain distance	2
9	Moving bodies towards each other	2
	Moving bodies towards each other	1
	Moving bodies following each other	2
	Calculating average speed	2
	End unit assessment	1
UNIT 9: Simple interest and problems involving saving (24 periods)		
Key Unit Competence: To be able to work out simple interest and solve problems involving saving		

Week	Content	Number of Periods
10	Introductory activity	1
	Calculating the simple interest	1
	More about calculating simple interest	2
	Solving problems involving simple interest	2
	Calculating interest rate	2
11	Solving problems involving interest rate	1
	Calculating principal	2
	Solving problems involving principal	1
	Calculating the time	1
	Solving problems involving time	1
	Calculating the amount of money	2
12	Solving problems involving amount of money	2
	Different ways of saving and how saving can be done	2
	Saving money in the bank or putting it in investments	1
	Solving problems involving savings	2
	End unit assessment	1
13	Exams	

TERM 3

UNIT 10: Equivalent expressions and number sequences (16 Periods)		
Key Unit Competence: To be able to write sequences of whole numbers, fractions and decimals		
Week	Content	Number of Periods
1	Introductory activity	1
	Algebraic expressions	1
	Equivalent expressions	1
	Finding the missing consecutive numbers	2
	Finding the missing consecutive fractions and decimals	1
	Finding the general term/rule of a linear sequence	2
2	Finding the general term/rule of linear sequence for fractions and decimals	2
	Finding the missing number or nth term in a linear sequence	2
	Finding the missing fraction or nth term in a linear sequence	1
	Finding the number sequence using the general term/rule	2
	End unit assessment	1
UNIT 11: Solving simple algebraic equations and inequalities (16 Periods)		
Key Unit Competence: To be able to form and solve simple algebraic equations and inequalities angles		
Week	Content	Number of Periods

3	Introductory activity	1
	Like terms of algebraic expressions	1
	Unlike terms of algebraic expressions	1
	Substituting algebraic expressions with addition and subtraction	1
	Substituting algebraic expressions involving multiplication	1
	Substituting algebraic expressions involving division	1
	Simple algebraic equations with one unknown	2
4	Solving fractional algebraic equations	2
	Solving problems involving equations	2
	Solving algebraic inequalities with one unknown	1
	Finding the solution set	1
	Solving problems involving simple algebraic equations and inequalities	1
	End unit assessment	1
UNIT 12: Regular polygons and bearings (16 Periods)		
Key Unit Competence: To be able to use bearings and compass points and understand the relationship between them. To use the angle sum of a triangle to determine the interior angles of regular polygons		
Week	Content	Number of Periods
5	Introductory activity	1
	Definition of Polygon and their Examples	1
	Investigating the central angle, interior and exterior angles of a polygon	1
	Investigating the sum of interior and exterior angles of a regular polygon	1
	Finding the interior and exterior angles of a regular polygon	1
	Finding the sum of interior angles of a regular polygon	1
	Exterior angles of regular polygons and their sum	1
	Finding sides and apothem	1
6	Finding perimeter of regular polygons	1
	Finding area of regular polygons	2
	Finding bearings and compass points	2
	Finding the bearing	1
	Exploring the concept of tiling/ construction	1
	End unit assessment	1
UNIT 13: Construction of polygons and nets for cuboids and prisms (24 periods).		
Key Unit Competence: To be able to construct polygons using a protractor, a ruler and a pair of compasses. Design nets to make cuboids and prisms.		
Week	Content	Number of Periods
7	Introductory activity	1
	Drawing triangles using a protractor and ruler	1
	Drawing a square using a protractor and ruler	1
	Drawing a rectangle using a protractor and ruler	1
	Drawing a regular pentagon using a protractor and ruler	1

	Drawing a regular hexagon	1
	Constructing triangles using a pair of compasses and a ruler	1
	Constructing a rectangle using a pair of compasses and a ruler	1
8-9	Finding perimeter of regular polygons	1
	Constructing a square using a pair of compasses and a ruler	3
	Finding the central angle and interior angle of a regular polygon	2
	Constructing a regular pentagon and regular hexagon	3
	Constructing a regular septagon and a regular octagon	2
	Constructing a regular nonagon and decagon	2
	Designing nets of cuboids, cubes and prisms	2
	End unit assessment	1

UNIT 14: Area bounded by a circle, surface area of cuboids and volume of a cylinder (16 periods)

Key Unit Competence: To be able to calculate the area enclosed by a circle, the surface area of cuboids and the volume of a cylinder.

Week	Content	Number of Periods
10	Introductory activity	
	Estimating the area bounded by a circle using a squared paper	1
	Exploring the area bounded by a circle using the concept of circumference and radius	1
	Calculating the area of a circle using radius	1
	Calculating the area of a circle given diameter	2
	Calculating area of a circle using circumference	2
	Finding the radius using area	1
11	Using the net of a cuboid to determine its surface area	1
	Calculating the surface area of a cuboid	1
	Finding the length of a cuboid	1
	Finding the width of a cuboid	1
	Finding the height of a cuboid	1
	Exploring the volume of a cylinder	1
	Finding volume of a cylinder	1
End unit assessment	1	

UNIT 15: Statistics (16 periods)

Key Unit Competence: To be able to extend methods for collecting data, representing and interpreting it in order to answer a question or explore a hypothesis.

Week	Content	Number of Periods
12-13	Introductory activity	1
	Collecting the data to investigate a question	1
	Explore a question using a tally to complete a frequency table.	1

	Interpreting the data in frequency tables	2
	Representing the data in a bar chart	2
	Interpreting the data in a bar chart	2
	Representing Data in Pie Charts	2
	Interpreting the data in pie charts to draw a conclusion	2
	Collect the data, summarize it in a table and represent in a bar chart or a pie chart	2
	End unit assessment	1
UNIT 16: Probability (8 periods)		
Key Unit Competence: To be able to order events in terms of likelihood (impossible, equally likely, certain).		
Week	Content	Number of Periods
14	Introductory activity	1
	Vocabulary of chance: impossible, certain.	1
	Vocabulary of chance: equally likely, events, chance, unlikely, likely	1
	Using expected outcomes of experiment to decide how likely an event is to happen	2
	Determining the likelihood of events	2
	End unit assessment	1
15	Exams	