

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 5 (TERM 1)

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	
HOURS PER TOPIC	21 hrs				9 hrs	3 hrs	18 hrs			3/6 hrs	6/3 hrs	
TOPICS, CONCEPTS AND SKILLS	REVISION OF GRADE 4 WORK (to be integrated into the topics, accordingly) WHOLE NUMBERS: Number range for counting, ordering, comparing and representing, and place value of digits <ul style="list-style-type: none"> Order, compare and represent numbers to at least 6-digit numbers Recognise the place value of digits in whole numbers to at least 6-digit numbers Round off to the nearest 5, 10, 100 and 1 000 				NUMBER SENTENCES <ul style="list-style-type: none"> Write number sentences to describe problem situations Solve and complete number sentences by: <ul style="list-style-type: none"> Inspection Trial and improvement Check solution by substitution 		FORMAL ASSESSMENT TASKS ASSIGNMENT Whole numbers Number sentences Note: Assignment to be completed in class within 3 hrs	WHOLE NUMBERS: Addition and subtraction Number range for calculations <ul style="list-style-type: none"> Addition and subtraction of whole numbers with at least 5-digit numbers Calculation techniques <ul style="list-style-type: none"> Use any two of the range of techniques to perform and check written and mental calculations of whole numbers including: <ul style="list-style-type: none"> Estimation Adding and subtracting in columns Building up and breaking down numbers Using a number line Rounding off and compensating Using addition and subtraction as inverse operations Note: Ensure that the strategies used do not compromise conceptual understanding Properties of whole numbers <ul style="list-style-type: none"> Recognise and use the commutative and associative properties of whole numbers 0 in terms of its additive property Solving problems <ul style="list-style-type: none"> Solve problems involving whole numbers, including the following: <ul style="list-style-type: none"> Financial contexts Measurement contexts 			REVISION	FORMAL ASSESSMENT TASK Test all topics
PREREQUISITE SKILL OR PRE-KNOWLEDGE	<ul style="list-style-type: none"> Counting ordering, comparing, and representing place value of 4-digit numbers Recognise the place value of digits in whole numbers to at least 4-digit numbers Rounding off to the nearest 100 				Basic operations with whole numbers			<ul style="list-style-type: none"> Addition and subtraction of 4-digit numbers Round off to the nearest 10, 100, 1 000 and estimate answers Adding and subtracting units, multiples of 10 and multiples of 100, 1 000 to/from any 4-digit number 				

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 5 (TERM 2)

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	
HOURS PER TOPIC	3 hrs	15 hrs			15 hrs			9 hrs		6 hrs		4 hrs	6 hrs
TOPICS, CONCEPTS AND SKILLS	FORMAL ASSESSMENT TASK INVESTIGATION Note: Administer an investigation on any ONE of the term 2 topics before teaching it	WHOLE NUMBERS: Multiplication Number range for calculations <ul style="list-style-type: none"> Multiplication of at least whole 3-digit by 2-digit numbers Calculation techniques <ul style="list-style-type: none"> Use any two of the range of techniques to perform and check written and mental calculations of whole numbers including: <ul style="list-style-type: none"> Estimation Building up and breaking down numbers Doubling and halving Using multiplication and division as inverse operations Note: Ensure that the strategies used do not compromise conceptual understanding			WHOLE NUMBERS: Division Number range for calculations <ul style="list-style-type: none"> Division of at least whole 3-digit by 2-digit numbers Calculation techniques <ul style="list-style-type: none"> Use any two of the range of techniques to perform and check written and mental calculations with whole numbers including: <ul style="list-style-type: none"> Estimation Building up and breaking down numbers Using multiplication and division as inverse operations Note: Ensure that the strategies used do not compromise conceptual understanding			NUMERIC PATTERNS Investigate and extend patterns <ul style="list-style-type: none"> Investigate and extend numeric patterns looking for relationships or rules of patterns <ul style="list-style-type: none"> Sequences not limited to constant difference or ratio Of learner's own creation Describe observed relationships or rules for sequences involving constant difference or ratio in learner's own words Input and output values <ul style="list-style-type: none"> Determine input values, output values and rules for patterns and relationships: <ul style="list-style-type: none"> Flow diagrams Tables Equivalent forms <ul style="list-style-type: none"> Determine equivalence of different descriptions of the same relationship or rule presented: <ul style="list-style-type: none"> Verbally In a flow diagram In a table By a number sentence 		GEOMETRIC PATTERNS Investigate and extend patterns <ul style="list-style-type: none"> Investigate and extend geometric patterns looking for relationships or rules of patterns: <ul style="list-style-type: none"> Represented in physical or diagram form Sequences not limited to a constant difference or ratio Of learner's own creation Describe observed relationships or rules in learner's own words Input and output values <ul style="list-style-type: none"> Determine input values, output values and rules for the patterns and relationships using flow diagrams Equivalent forms <ul style="list-style-type: none"> Determine equivalence of different descriptions of the same relationship or rule presented: <ul style="list-style-type: none"> Verbally In a flow diagram By a number sentence 		REVISION OF TERM 1 & 2 WORK	ASSESSMENT TASK TEST All term 1 & 2 topics
PREREQUISITE SKILL OR PRE-KNOWLEDGE		<ul style="list-style-type: none"> Describe, compare and order common fractions of different denominators (halves, thirds, quarters, fifths, sixths, sevenths, eighths) fractions in diagram form Equivalent fractions Multiply at least and 2-digit by 2-digit numbers Doubling and halving Multiplication facts for units by multiples of 10, 100 and 1 000 Building up and breaking down 4-digit whole numbers Round off to the nearest 10, 100 and 1 000 to estimate answers Multiples of 1-digit numbers to at least 100 1 in terms of its multiplicative property 			<ul style="list-style-type: none"> Division of 3-digit numbers by 1-digit numbers Solve problems in financial and measurement contexts with whole numbers including sharing, grouping and rate Multiples of 2-digit numbers to at least 100 Factors of 2-digit whole numbers to at least 100 1 in terms of its multiplicative property 		<ul style="list-style-type: none"> Investigate and extend patterns Describe patterns in own words Describe general rules observed in patterns Determine input and output values in tables and flow diagrams 		<ul style="list-style-type: none"> Investigate and extend patterns Describe patterns in own words Describe general rules observed in patterns Determine input and output values in tables and flow diagrams 				

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 5 (TERM 3)

TERM 3		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	
HOURS PER TOPIC		21 hrs				6 hrs		12 hrs		9 hrs		6 hrs	4 hrs
TOPICS, CONCEPTS AND SKILLS	FORMAL ASSESSMENT TASK PROJECT Note: The project must cover a combination of topics from term 1-3 and must be completed before the end of term 3	COMMON FRACTIONS Describing and ordering fractions <ul style="list-style-type: none"> Count forwards and backwards in fractions Compare and order common fractions to at least twelfths Calculations with fractions <ul style="list-style-type: none"> Addition and subtraction of common fractions with same denominator Addition and subtraction of mixed numbers Fractions of whole which result in whole numbers Recognise, describe and use the equivalence of division and fractions Solving problems <ul style="list-style-type: none"> Solve problems in contexts involving common fractions, including grouping and sharing Equivalent forms <ul style="list-style-type: none"> Recognise and use equivalent forms of common fractions (fractions in which one denominator is a multiple of another) 				LENGTH Practical measuring <ul style="list-style-type: none"> Estimate and practically measure 2D shapes and 3D objects using measuring instruments such as: <ul style="list-style-type: none"> Rulers Metre sticks Tape measures Trundle wheels Record, compare and order lengths of shapes and objects in millimetres (mm), centimetres (cm), metres (m), kilometres (km) Calculations and problem-solving <ul style="list-style-type: none"> Solve problems in contexts involving length Convert between any of the following units: <ul style="list-style-type: none"> Millimetres (mm), Centimetres (cm), Metres (m) and Kilometres (km) Conversions limited to whole numbers and common fractions 		PROPERTIES OF 2D SHAPES Range of shapes <ul style="list-style-type: none"> Recognise, visualise and name 2D shapes in the environment and geometric setting, focusing on: <ul style="list-style-type: none"> Regular and irregular polygons – triangles, squares, rectangles, other quadrilaterals, pentagons, hexagons, heptagons Circles Similarities and differences between squares and rectangles Characteristics of shapes <ul style="list-style-type: none"> Describe, sort and compare 2D shapes in terms of: <ul style="list-style-type: none"> Straight and curved sides Number of sides Lengths of sides Angles in shapes, limited to: <ul style="list-style-type: none"> Right angles Angles smaller than right angles Angles greater than right angles Further activities <ul style="list-style-type: none"> Draw 2D shapes on grid paper Angles <ul style="list-style-type: none"> Recognise and describe angles in 2D shapes: <ul style="list-style-type: none"> Right angles Angles smaller than right angles Angles greater than right angles 		PROPERTIES OF 3-D OBJECTS Range of objects <ul style="list-style-type: none"> Recognise, visualise and name 3D objects in the environment and geometric settings, focusing on: <ul style="list-style-type: none"> Rectangular prisms and other prisms Cubes Cylinders Cones Pyramids Similarities and differences between cubes and rectangular prisms Characteristics of objects <ul style="list-style-type: none"> Describe, sort and compare 3D objects in terms of: <ul style="list-style-type: none"> Shape of faces Number of faces Flat and curved surfaces Further activities <ul style="list-style-type: none"> Make 3D models using cut out polygons Cut open boxes to trace and describe their nets 		REVISION	FORMAL ASSESSMENT TASKS TEST All term 3 topics
PREREQUISITE SKILL OR PRE-KNOWLEDGE			<ul style="list-style-type: none"> Describe, compare and order common fractions of different denominators (halves, thirds, quarters, fifths, sixths, sevenths, eighths) fractions in diagram form Equivalent fractions Adding and subtracting fractions in context 				<ul style="list-style-type: none"> Estimating, measuring, recording, comparing and ordering length Use of measuring instruments Units of length Solve problems in contexts Converting between units Conversions limited to whole numbers and common fractions 		<ul style="list-style-type: none"> Recognise, visualise and name 2D shapes in the environment and geometric settings: <ul style="list-style-type: none"> Regular and irregular polygons up to hexagons Circles Describe, sort and compare 2D shapes in terms of: <ul style="list-style-type: none"> Straight and curved sides Number of sides 		<ul style="list-style-type: none"> Recognise, visualise and name: <ul style="list-style-type: none"> Rectangular prisms Spheres Cylinders Cones Square-based pyramids Describe, sort and compare 3D objects in terms of: <ul style="list-style-type: none"> Shapes of faces Flat and curved surfaces Make 3D models using cut-out polygons 		

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 5 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
HOURS PER TOPIC	15 hrs		6 hrs		6 hrs	12 hrs		6 hrs	6 hrs	3 hrs
TOPICS, CONCEPTS AND SKILLS	PERIMETER, AREA AND VOLUME OF 2D SHAPES Perimeter <ul style="list-style-type: none"> Measure perimeter using rulers or measuring tapes Measurement of area <ul style="list-style-type: none"> Find areas of regular and irregular shapes by counting squares on grids in order to develop an understanding of square units Measurement of volume <ul style="list-style-type: none"> Find volume/capacity of objects by packing or filling them in order to develop an understanding of cubic units 		CAPACITY/VOLUME Practical measuring <ul style="list-style-type: none"> Estimate and practically measure 3D objects using measuring instruments such as: <ul style="list-style-type: none"> Measuring spoons Measuring cups, Measuring jugs Record, compare and order capacity and volume of 3D objects in millilitres (ml) and litres (l) Calculations and problem-solving <ul style="list-style-type: none"> Solve problems in contexts involving capacity/volume Convert between millilitres and litres limited to examples with whole numbers and fractions 		TIME Reading time and time instruments <ul style="list-style-type: none"> Read, tell and write time in 12-hour and 24-hour formats on both analogue and digital instruments in: <ul style="list-style-type: none"> Hours Minutes Seconds Instruments include clocks, watches and stopwatches Reading calendars Calculations and problem-solving time include: <ul style="list-style-type: none"> Problems in contexts involving time Calculation of time intervals where time is given in: <ul style="list-style-type: none"> Seconds and/or minutes Minutes and/or hours Hours and/or days Days, weeks and/or months Years and/or decades 	USE ALL FOUR BASIC OPERATIONS TO SOLVE PROBLEMS IN CONTEXT Solving problems <ul style="list-style-type: none"> Solve problems in contexts involving whole numbers and fractions, including: <ul style="list-style-type: none"> Financial contexts Measurement contexts Fractions, including grouping and equal sharing Comparing two or more quantities of the same kind (ratio) Comparing two quantities of different kinds (rate) 		REVISION	FORMAL ASSESSMENT TASK TEST Term 3 & 4 topics and fundamental topics of term 1 & 2	
PREREQUISITE SKILL OR PRE-KNOWLEDGE	<ul style="list-style-type: none"> Measure perimeter using rulers or measuring tapes Find areas of regular and irregular shapes by counting squares on grids in order to develop an understanding of square units 		<ul style="list-style-type: none"> Millilitres and litres Measuring instruments such as measuring cups and measuring spoons Read off measurements where the calibration line is numbered 		<ul style="list-style-type: none"> Read, tell and write time in 12-hour and 24-hour formats on both analogue and digital instruments in hours, minutes and seconds Calculation of the number of days between any two dates within the same or consecutive years Calculation of time intervals where time is given in minutes or hours only Reading calendars 	<ul style="list-style-type: none"> Number sentences All operations with whole numbers and common fractions 				