2025 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8

TERM 1	WEEK 1 WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10		
HOURS PER TOPIC	9 HOURS	9 HOURS 9 HOURS 9 HOURS				4,5 HOURS	13,5 HOURS				
ASSESSMENT TASKS				ASSIGNMEN [*]	Γ (Minimum of 3 topics) & TEST					
TOPIC, CONCEPTS, SKILLS AND VALUES	WHOLE NUMBERS Properties of whole numbers Revise the properties done in the previous grade Recognise the division property of 0, whereby an number divided by 0 is undefined Calculations using whole numbers Revise: Calculations using all four operations on whole numbers, estimating and using calculators where appropriate Calculation techniques Use a range of strategies to perform and check written and mental calculations with whole numbers including: Estimation Adding, subtracting and multiplying in columns Long division Rounding off and compensating Using a calculator Multiples and factors Revise Prime factors of numbers to at least 3-digit whole numbers LCM and HCF of whole numbers, by inspection of factorisation Solving problems Revise Solve problems involving whole numbers, including: Comparing two or more quantities of the same kind (ratio) Comparing two quantities of different kinds (rate Sharing in a given ratio where the whole is given ratio Extend to increasing or decreasing of a number if a given ratio Solve problems that involve whole numbers, percentages and decimal fractions in financial contexts such as: VAT Hire purchase Exchange rates	Multiply and divide Perform calculation operations with int Perform calculation operations with number squares, cubes, so cube roots of integers Recognise and use associative and distontion and multiplicative inventors. Recognise and use multiplicative inventors.	and subtraction with with integers and involving all four egers are involving all four imbers that involve quare roots and gers are commutative, stributive properties altiplication for eadditive and	fractions by co Calculate the roots and cube fractions Calculate amount increase or de Calculations a Calculation techn Use knowledg relationships to fractions Percentage Calculate amount increase or de Solving problems Solve problems common fractions of wheeledge of the common fractions of wheeledge of the common	fractions numbers and common ommon fractions squares, cubes, square e roots of common ounts if given percentage ocrease and solving problems iques e of reciprocal o divide common ounts if given percentage ocrease sit in contexts involving ons and mixed numbers ping, sharing and finding	and cube roots of decimal fractions Calculation techniques Use knowledge of place value to estimate the number of decimal places in the result before performing calculations Use rounding off and a calculator to check results where appropriate Solving problems Solve problems in context involving decimal fractions	exponential form Compare and representations using numbers that invoroots of integers compare and representations using numbers that invoroots of integers Compare and representation numbers that invoroots of integers Compare and representation numbers that invoroots of integers Calculate the squarational numbers Colving problems	resent integers in expresent numbers in sciexponents umbers in exponent laws of exponents, ling umbers in exponents, ling umbers in exponent laws of exponents, ling umbers in exponents umbers in exponents umbers in exponent umbers in exponent	onential form entific notation, ial form nited to: s of operations d square and cube perations with quare and cube and cube roots of		

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TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
HOURS PER TOPIC	9 HOURS		9 HOURS		9 HOURS		4,5 HOURS	13,5 HOURS		
PREREQUISITE SKILL/ PRE- KNOWLEDGE			integers for any integers, orde integers Add and subtrace Recognise and und associative addition and mulintegers Solve problems in	r and compare t with integers se commutative properties of	where one do multiple of th Multiplication including mix fractions whe multiple of ar Converting material fractions Use knowled factors to wriform before of the worder of the worder of the whole Calculate per	n of common fractions, ked numbers, not limited to ere one denominator is a	 Count forwards and backwards in decimals Compare and order decimal fractions Rounding off decimal fractions Addition and subtraction of decimal fractions of at least three decimal places Multiplication of decimal fractions by whole numbers and decimals Division of decimal fractions by whole numbers Use knowledge of Place value to estimate the number of decimal places in the result before performing calculations Use rounding off and a calculator to check results where appropriate 	 a^b = a × a × a × Recognise and use numbers involving ender and calculation numbers in exponential and square and cub. 	for b number of factor the appropriate laws exponents and squar is involving all four operatial form, limited to exponents	s of operations with re and cube roots perations using

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TERM 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11	WEEK 12	
HOURS PER TOPIC	9 но	ours	9 HOL	JRS TO	9 HC	OURS	9 HOL	JRS	9 HOUR	s			
ASSESSMENT TASKS					INV	INVESTIGATION (Topics not yet taught) & JUNE TEST							
SKILLS	and classify I terms in alge Recognise ar coefficients a algebraic exp Expand and simple expressions Use commutative distributive laws numbers and law Add and subsection algebraic ex Multiply intermonomials by algebraic termine the nur	nd identify for writing pressions Identify like and unlike ebraic expressions and identify and exponents in pressions plify algebraic e, associative and for rational ws of exponents to: btract like terms in expressions als its lials als its lials ebraic expressions are above operations the squares, cubes, and cube roots of praic terms or like rms		equations to ordered pairs ations to include: d multiplicative	for patterns a using: - Flow diagration - Tables - Formulae • Extend deternation values, output for patterns a using equation • Revise, deternation different designation presented: - Verbally - In flow diagration presented: - Verbally - In flow diagration presented: - Verbally - In flow diagration presented: - Septormute By formute By numb	tput values rmine input ut values or rules and relationships ams rmine input ut values or rules and relationships ons s rmine, interpret quivalence of criptions of the nship or rule agrams alae er sentences rmine, interpret quivalence of criptions of the nship or rule	GRAPHS Interpreting graphs Analyse and interpresidem situations, on the following trees. Linear or non-line. Constant, increas. Maximum or mini. Discrete or conting. Drawing graphs Draw global graphs descriptions of a presidentifying features. Use tables or order points and draw gray. Cartesian plane.	with special focus and and features: ar aing or decreasing mum uous from given oblem situation, listed above ed pairs to plot	REVISIO	N	FORMAL ASSESSMENT TASK TEST All term 1 & 2 topics		
PREREQUISITE SKILL/ PREKNOWLEDGE	relationships r symbolic form Identify variab	Write number sentences to describe problem situations Analyse and interpret number sentences that describe a given situation Solve and complete number sentences by:		using flow diand formulae Determine, in justify equiva descriptions relationship overbally, in flo	s or rules for relationships agrams, tables enterpret and alence of different of the same or rule presented ow diagrams, in mulae and by								

2025 AND OWN CONTRACTOR OF THE STATE OF THE **WEEK 11** TERM 3 WEEK 1 WEEK 2 WEEK 3 WEEK 4 WEEK 5 WEEK 6 WEEK 7 WEEK 8 WEEK 9 **WEEK 10 HOURS PER** 9 HOURS **13,5 HOURS** 9 HOURS 9 HOURS 9 HOURS TOPIC ASSESSMENT **PROJECT & TEST** TASKS **GEOMETRY OF 2D SHAPES** GEOMETRY OF STRAIGHT LINES THEOREM OF PYTHAGORAS AREA AND PERIMETER OF 2-D REVISION FORMAL TOPIC, **ASSESSMENT** CONCEPTS, SHAPES Angle relationships Classifying 2D shapes Develop and use the Theorem of **SKILLS AND** TASK Area and perimeter **Pythagoras VALUES** Recognise and describe pairs of angles formed by: Identify and write clear definitions of triangles in terms TEST of their sides and angles, distinguishing between: Investigate the relationship between the Use appropriate formulae to Perpendicular lines All term 3 topics calculate perimeter and area of: lengths of the sides of a right-angled - Equilateral triangles Intersecting lines parallel lines cut by a transversal triangle to develop the Theorem of circles - Isosceles triangles Pythagoras Solving problems Calculate the areas of polygons, to - Right-angled triangles at least 2 decimal places, by Determine whether a triangle is right-Solve geometric problems using the relationships between Constructions decomposing them into rectangles angled triangle or not if the lengths of the pairs of angles described above PROVIDE LEARNERS WITH ACCURATELY and/or triangles three sides of the triangle is known CONSTRUCTED Use and describe the relationship FIGURES TO INVESTIGATE THE PROPERTIES OF Use the Theorem of Pythagoras to between the radius, diameter and **TRIANGLES** calculate the missing length in a rightcircumference of a circle in angled triangle, leaving irrational Investigating properties of geometric figures answers in surd form Investigate the angles in a triangle, focusing on: Use and describe the relationship - The sum of the interior angles of triangles between the radius and area of a - The size of angles in an equilateral triangle circle in calculations - The sides and base angles of an isosceles triangle Calculations and solving problems Classifying 2D shapes Solve problems, with or without a Identify and write clear definitions of quadrilaterals in calculator, involving perimeter and area of polygons and circles to at terms of their sides and angles, distinguishing least 2 decimal places between: Parallelogram Use and describe the meaning of the irrational number Pi (π) in Rectangle calculations involving circles Square Rhombus Use and convert between Trapezium appropriate SI units, including: mm2 Kite \leftrightarrow cm² \leftrightarrow m² \leftrightarrow km² Constructions PROVIDE LEARNERS WITH ACCURATELY CONSTRUCTED FIGURES TO INVESTIGATE THE PROPERTIES OF QUADRILATERALS Investigating properties of geometric figures Investigate sides and angles in quadrilaterals, focusing - The sum of the interior angles of quadrilaterals - The sides and opposite angles of parallelograms Solving problems Solve geometric problems involving unknown sides and angles in triangles and quadrilaterals, using known properties and definitions Similar and congruent 2D shapes Identify and describe the properties of congruent Identify and describe the properties of similar shapes Solving problems Solve geometric problems involving unknown sides

and angles in triangles and quadrilaterals, using known

properties and definitions

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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	9 HOI	URS	13,5 HOURS			9 HOURS		9 HOURS			
PREREQUISITE SKILL/ PREKNOWLEDGE	Definitions of: - Line segment - Ray - Straight lines - Parallel lines - Perpendicular lines		their sides and Equilateral to live a large and live and	angles d triangles t, name and compare q des perpendicular sides es (right-angles or not) name parts of a circle d describe similar and	uadrilaterals in terms	roots of whole n	quares and square numbers	Geometry of 2E Algebraic equat Calculate the sistematic square roots are rational number.	quares, cubes, and cube roots of		

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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	9 но	DURS	9 Н	OURS	9 HC	DURS	4,5 HOURS		13,5 HOURS	
ASSESSMENT TASKS					AMINATION: R 1 & PAPER 2					
TOPIC, CONCEPTS, SKILLS AND VALUES	geometric patterns I between numbers, it Represented in ph Not limited to seque constant difference of learner's own of Represented in tal Extend investigate a geometric patterns I between numbers, it represented algebra. Describe and justify	d patterns and extend numeric and ooking for relationships including patterns: hysical or diagram form uences involving a or ratio creation bles and extend numeric and ooking for relationships including patterns aically the general rules for ips between numbers in			REVISION OF ERM 1 – 4 WORK				SSESSMENT ON PAPER 1 /	
PREREQUISITE SKILL/ PREKNOWLEDGE	between numbersDescribe and justify	end numeric and ooking for relationships the general rules for ips between numbers in								