## 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 HOU	IRS	9 HOURS		9 HOURS		4,5 HOURS	13,5 HOURS		,
ASSESSMENT TASKS	ASSIGNMENT (Minimum of 3 topics) & TEST									
TOPIC, CONCEPTS, SKILLS AND VALUES	<ul> <li>Recognise the division produced by 0 is using whole numbers I.</li> <li>Calculations using all for numbers, estimating and appropriate</li> <li>Calculation techniques</li> <li>Use a range of strategies written and mental calcunumbers including:         <ul> <li>Estimation</li> <li>Adding, subtracting and</li> <li>Long division</li> <li>Rounding off and compering and acalculator</li> </ul> </li> <li>Multiples and factors         <ul> <li>Revise</li> </ul> </li> <li>Prime factors of numbers numbers</li> <li>LCM and HCF of whole if factorisation</li> <li>Solving problems</li> <li>Revise</li> <li>Solve problems involving including:         <ul> <li>Comparing two or more kind (ratio)</li> <li>Comparing two quantities</li> <li>Sharing in a given ratio</li> </ul> </li> </ul>	ne in the previous grades roperty of 0, whereby any indefined Calculations Revise:  It operations on whole I using calculators where I using calcula	INTEGERS Calculations with integers  Revise addition and integers  Multiply and divide of the perform calculations operations with integers operations with number squares, cubes, squares, cubes of integers  Recognise and use associative and district of addition and multintegers  Recognise and use multiplicative invers	d subtraction with with integers is involving all four gers is involving all four abers that involve uare roots and irs  commutative, ributive properties iplication for  additive and	fractions by control of the common fractions of well as a cultification of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the common fractions of well as a control of the co	numbers and common common fractions squares, cubes, square per roots of common counts if given percentage ecrease and solving problems iniques ge of reciprocal to divide common counts if given percentage ecrease	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 represent imited to positive and represent imited and represent im	nd represent whole resent integers in expresent numbers in screxponents  umbers in exponent  laws of exponents, lin  umbers in exponents  umbers in ex	onential form ientific notation, tial form mited to:  vs of operations d square and cube operations with square and cube

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HOURS PER TOPIC	9 HOURS		9 HOURS		9 HOURS		4,5 HOURS	13,5 HOURS		
PREREQUISITE SKILL/ PRE- KNOWLEDGE	<ul> <li>Order and compare p</li> <li>Calculations using all numbers, estimating a appropriate</li> <li>Prime factors of numbers</li> <li>LCM and HCF of numbers, by inspection</li> <li>Solve problems involvincluding:</li> </ul>	ving whole numbers, quantities of the same kind s of different kinds (rate)	<ul> <li>integers for any ir</li> <li>Recognise, order integers</li> <li>Add and subtract</li> <li>Recognise and us and associative p addition and mult integers</li> <li>Solve problems ir</li> </ul>	nterval and compare with integers se commutative roperties of	where one de multiple of the Multiplication including mix fractions whe multiple of an Converting m fractions  Use knowled factors to writ form before of Use knowled to add and suin order to pethem  Calculate the whole  Calculate per	of common fractions, ed numbers, not limited to ere one denominator is a	<ul> <li>Multiplication of decimal fractions by whole numbers and decimals</li> <li>Division of decimal fractions by whole numbers</li> <li>Use knowledge of Place value to estimate</li> </ul>	<ul> <li>a<sup>b</sup> = a × a × a × 1</li> <li>Recognise and use numbers involving e</li> <li>Perform calculations numbers in exponer and square and cub</li> </ul>	for <i>b</i> number of facto the appropriate laws exponents and square s involving all four op ntial form, limited to e e roots	of operations with e and cube roots perations using

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	DURS	9 HOL	JRS	9 НО	OURS	9 HOU	IRS	9 HOUR	s			
ASSESSMENT TASKS					INV	INVESTIGATION (Topics not yet taught) & JUNE TEST							
TOPIC, CONCEPTS AND SKILLS	and classify literms in alge Recognise ar coefficients a algebraic exp Expand and simple expressions Use commutative distributive laws in numbers and law Add and subalgebraic exp Multiply integration and in the common in the c	nd identify for writing pressions Identify ike and unlike braic expressions and identify and exponents in pressions plify algebraic  a, associative and for rational as of exponents to: pressions pressions gers and py: ials als als als als bllowing by integers is: ials als als als als als als als als als		equations to ordered pairs lations to include: d multiplicative conents	for patterns a using:  - Flow diagra - Tables - Formulae  • Extend deter values, output for patterns a using equation  • Revise, deter and justify end different desc same relation presented:  - Verbally - In flow diagram in tables - By formutable in ta	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 lae er sentences rmine, interpret quivalence of criptions of the nship or rule requivalence of criptions of the nship or rule requations	- Linear or non-line - Constant, increas - Maximum or mini - Discrete or contin   Drawing graphs  Draw global graphs	with special focus and and features:  ar ing 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 resumbble form	les and constants	<ul> <li>problem situations</li> <li>Analyse and interpritate that describe a give</li> <li>Solve and complete by:         <ul> <li>Inspection</li> <li>Trial and improver</li> </ul> </li> <li>Determine the number of supersion by substitutions</li> </ul>	et number sentences n situation e number sentences ment erical value of an titution nd constants in given	using flow dia and formulae Determine, ir justify equiva descriptions relationship overbally, in flo	s or rules for relationships agrams, tables enterpret and allence of different of the same or rule presented ow diagrams, in mulae and by							

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 HOUR	RS		13,5 HOURS		9 HOURS		9 HOURS		9 HOURS	
ASSESSMENT TASKS					PROJEC	T & TEST					
TOPIC, CONCEPTS, SKILLS AND VALUES	GEOMETRY OF STRAIGHT LINES Angle relationships  Recognise and describe pairs Perpendicular lines Intersecting lines parallel Solving problems  Solve geometric problems usin pairs of angles described above	of angles formed by:  I lines cut by a transversal  ng the relationships between	of their sides an  - Equilateral - Isosceles to - Right-angle Constructions PROVIDE LEARNE CONSTRUCTED FIGURES TO INVE TRIANGLES Investigating prop  • Investigate the - The sum of - The sides an Classifying 2D sha • Identify and writerms of their sides ween: - Parallelogr - Rectangle - Square - Rhombus - Trapezium - Kite Constructions PROVIDE LEARNE CONSTRUCTED FIGURES TO INVE QUADRILATERALS Investigate side on: - The sum of the sides and angles in transporties and sides on: - The sides and Similar and congrue - Identify and designates - Identify and designates - Solve geometrical designates - Identify and designates - Solve geometrical designates - Solve geometrical designates - Identify and designates - Solve geometrical designates - Solve geometrical designates - Identify and designates - Solve geometrical designates - Sol	te clear definitions of trand angles, distinguishing triangles riangles ed triangles ed triangles ERS WITH ACCURATE STIGATE THE PROPE erties of geometric figurangles in a triangle, for the interior angles of an isolate and base angles of an isolate and base angles, distinguishes te clear definitions of quides and angles, distinguishes erties of geometric figurangles in quadricate and angles in quadricate and proposite angles of proposite and quadrilate definitions uent 2D shapes scribe the properties of corroblems involving unitangles and quadrilate definitions uent 2D shapes scribe the properties of corroblems involving unitangles and quadrilate and qu	ELY ERTIES OF gures cusing on: iangles I triangle osceles triangle uadrilaterals in guishing  ELY ERTIES OF gures ilaterals, focusing uadrilaterals barallelograms inknown sides rals, using known f congruent f similar shapes inknown sides	lengths of the side triangle to develop Pythagoras  • Determine whether angled triangle or three sides of the  • Use the Theorem calculate the missiangled triangle, leanswers in surd for	e Theorem of  lationship between the es of a right-angled of the Theorem of er a triangle is right-not if the lengths of the triangle is known of Pythagoras to sing length in a right-eaving irrational	at least 2 decima decomposing the and/or triangles  • Use and describe between the radic circumference of calculations  • Use and describe between the radic circle in calculations  • Solve problems, calculator, involvice area of polygons least 2 decimal purchal calculations involved.  • Use and describe the irrational number calculations involved.	formulae to ter and area of:  eas of polygons, to al places, by em into rectangles  e the relationship tus, diameter and a circle in  e the relationship tus and area of a ons  olving problems  with or without a ing perimeter and and circles to at olaces  e the meaning of other Pi (π) in lying circles  between  nits, including: mm²	REVISION	FORMAL ASSESSMENT TASK TEST All term 3 topics

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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 HOURS		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 t  Isosceles tri  Right-angled  Describe, sort of:  Length of side  Parallel and  Size of angle  Describe and	angles d triangles , name and compare qu	uadrilaterals in terms	roots of whole n	quares and square umbers	<ul> <li>Geometry of 2D</li> <li>Algebraic equate</li> <li>Calculate the so square roots an rational number</li> </ul>	ions quares, cubes, d cube roots of		

	HING PLANS: MATHEMA									
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 нс	DURS	9 нс	4,5 HOURS		13,5 HOURS		
ASSESSMENT TASKS	EXAMINATION: PAPER 1 & PAPER 2									
TOPIC, CONCEPTS, SKILLS AND VALUES	geometric patterns le between numbers, ii  Represented in ph Not limited to seque constant difference of learner's own of Represented in tal  Extend investigate a geometric patterns le between numbers, ii represented algebra  Describe and justify	I patterns Ind extend numeric and pooking for relationships including patterns: Invisical or diagram form predictions involving a per ratio reation poles Ind extend numeric and pooking for relationships including patterns ically I the general rules for ps between numbers in		T	REVISION OF ERM 1 – 4 WORK				SESSMENT TON PAPER 1 A	
PREREQUISITE SKILL/ PREKNOWLEDGE	<ul><li>between numbers</li><li>Describe and justify</li></ul>	ooking for relationships								