## MATHEMATICS \_2025 WEEKLY TEACHING PLAN \_ GRADE 9

TERM 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
	3 days	5 days	5 days	5 days	5 days	5 days	5 days	5 days	5 days	4 days	5 days
Hours per	8 hrs.		9 hrs.		4.5 hrs.	9 hrs.		9 hrs.		3.5 hrs.	4.5 hrs.
topic			0 11131		4.0 111 0.	C III CI		S 1.11 S.		0.0 1110.	4.0 1110.
%Coverage	7.6%		6.5 (14.1%)			8.7 (22.8%)		2.2 (25%)			
Topics, concepts	WHOLE NUMBERS		INTEGERS		FORMAL ASSESSMENT TASK	EXPONENTS  Calculations using numbers in exponential form  • Revise the following general laws of exponents.  - a <sup>m</sup> x a <sup>n</sup> = a <sup>m+n</sup> - a <sup>m</sup> ÷ a <sup>n</sup> = a <sup>m-n</sup> , if m>n  - (a <sup>m</sup> ) <sup>n</sup> = a <sup>mxn</sup> - (a x t) <sup>n</sup> = a <sup>n</sup> x t <sup>n</sup>		NUMERIC AND GEOMETRIC PATTERNS: Investigate and extend patterns  Investigate and extend numeric and geometric patterns looking for relationships between numbers including patterns:  represented in physical or diagram form, not limited to sequences involving a		REVISION	FORMAL ASSESSME
and skills	Properties of numbers		Calculations with integers								NT TASK
	<ul> <li>Describe the real number system by recognising, defining and distinguishing properties of:         <ul> <li>natural numbers, whole numbers, integers, rational numbers</li> </ul> </li> </ul>		Revise:     addition and subtraction with integers     Multiplication and division with integers     perform calculations involving all four		ASSIGNMENT     Whole numbers						TEST
					<ul><li>Integers</li></ul>						All topics
			operations with integers			$- a^0 = 1$		constant difference or ratio, of			
	<ul><li>Multiples and factors</li><li>Use prime factorisation of</li></ul>		<ul> <li>perform calculations involving all four operations with numbers that</li> </ul>			Extend the general laws of exponents to include:		learner's own creation, represented in tables,			
	numbers to find LCM and		involve the squares, cubes,			exponents to inc     integer expo		represented			
	HCF		square roots and cube roots of			$- a^{-m} = \frac{1}{a^m}$		Describe and ju	ustify the general		
	Solving problems		integers			a <sup>m</sup>		rules for observed relationships between numbers in own words			
	Solve problems in contexts		Properties of integers  Revise:  Commutative, associative and distributive properties of addition and multiplication for integers  Additive and multiplicative inverses for integers			Perform calculations involving all four operations using numbers in exponential form		or in algebraic language			
	involving:										
	<ul> <li>Ratio and rate</li> <li>Direct and indirect proportion</li> <li>Solve problems that involve whole numbers, percentages and decimal fractions in financial contexts such as:         <ul> <li>Commission</li> <li>rentals</li> </ul> </li> </ul>										
	<ul><li>compound interest</li></ul>										
Prerequisite	The commutative;		Perform calculations involving all			Recognize and use the		Determine input values, output			
skill or pre-	associative; distributive properties of whole numbers  o in terms of its additive property (identity element for addition)  in terms of its multiplicative property (identify element for multiplication)  Recognise the division property of 0, whereby any number divided by 0 is undefined		roots and cube roots of integers  Calculate the squares, cubes, square roots and cube roots of rational numbers			appropriate laws of numbers		values and rules for patterns			
Kilowieuge						involving exponents and square and cube roots		<ul><li>given in input-output diagrams</li><li>Determine equivalence of</li></ul>			
							different descriptions of the same relationship or rule presented verbally, in a flow diagram, by a number sentence.				