

MATHEMATICS _2025 WEEKLY TEACHING PLAN _ GRADE 8

TERM 1	Week 1 3 days	Week 2 5 days	Week 3 5 days	Week 4 5 days	Week 5 5 days	Week 6 5 days	Week 7 5 days	Week 8 5 days	Week 9 5 days	Week 10 4 days	Week 11 5 days	
Hours per topic	11.5 hrs.			9 hrs.		2 hrs.	9 hrs.		8 hrs.		3.5 hrs.	4.5 hrs.
% Coverage	11.8%			4 (15.8%)			5.3 (21.1%)		3.9 (25%)			
Topic, concepts, skills and values	WHOLE NUMBERS Properties of whole numbers - Revise the properties done in the previous grades - Recognise the division property of 0, whereby any 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 or 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 - Extend to increasing or decreasing of a number in a given ratio			INTEGERS Calculations with integers Revise - addition and subtraction with integers - Multiply and divide with integers - Perform calculations involving all four operations with integers - Perform calculations involving all four operations with numbers that involve squares, cubes, square roots and cube roots of integers Properties of integers - Recognise and use commutative, associative and distributive properties of addition and multiplication for integers - Recognize and use additive and multiplicative inverses for integers		FORMAL ASSESMENT TASK ASSIGNMENT - Whole numbers - Integers	COMMON FRACTIONS Calculations with fractions - Divide whole numbers and common fractions by common fractions - Calculate the squares, cubes, square roots and cube roots of common fractions - Calculate amounts if given percentage increase or decrease - Calculations and solving problems Calculation techniques - Use knowledge of reciprocal relationships to divide common fractions Percentage - Calculate amounts if given percentage increase or decrease Solving problems - Solve problems in contexts involving common fractions and mixed numbers, including grouping, sharing and finding fractions of whole numbers - Solve problems in contexts involving percentages		DECIMAL FRACTIONS Calculations with decimal fractions - Multiplication of decimal fractions by decimal fractions not limited to one decimal place - Division of decimal fractions by decimal fractions - Calculate the squares, cubes, square roots 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		REVISION	FORMAL ASSESMENT TASK TEST All term 1 topics

	- Solve problems that involve whole numbers, percentages and decimal fractions in financial contexts such as: - VAT - hire purchase - exchange rates						
Prerequisite skill/pre-knowledge	- Multiplication of whole numbers to at least 12×12 - Order and compare prime numbers to at least 100 - Calculations using all four operations on whole numbers, estimating and using calculators where appropriate - Prime factors of numbers to at least 3-digit whole numbers - LCM and HCF of numbers to at least 3-digit whole numbers, by inspection or factorisation - 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	- Count forwards and backwards in integers for any interval - Recognise, order and compare integers - Add and subtract with integers - Recognise and use commutative and associative properties of addition and multiplication for integers - Solve problems in contexts involving addition and subtraction of integers		- Addition and subtraction to fractions where one denominator is not a multiple of the other - Multiplication of common fractions, including mixed numbers, not limited to fractions where one denominator is a multiple of another - Converting mixed numbers to common fractions - Use knowledge of multiples and factors to write fractions in the simplest form before or after calculations - Use knowledge of equivalent fractions to add and subtract common fractions in order to perform calculations with them - Calculate the percentage of part of a whole - Calculate percentage increase or decrease of whole numbers	- 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		