TERM 2	3 hrs	Week 1 4 days	Week 2 4 days	Week 3 4 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 5 days	Week 11 5 days
Hours per topic		**20 hrs.**					**9 hrs.**		**4.5 hrs.**	**4.5 hrs.**	**4.5 hrs.**	**4.5 hrs.**
%Coverage		**13.1 (38.1%)**					**5.7 (43.8%)**		**6.2 (50%)**			
Topics, concepts and skills	**FORMAL ASSESSMENT TASK** **INVESTIGATION** **NB Administer an investigation on any ONE of the Term 2 topics before teaching it.**	**ALGEBRAIC EXPRESSIONS** **Algebraic language** • Revise the following: – Recognize and identify conventions for writing algebraic expressions – Identify and classify like and unlike terms in algebraic expressions – Recognize and identify coefficients and exponents in algebraic expressions – Recognize and differentiate between monomials, binomials and trinomials **Expand and simplify algebraic expressions.** • Revise the following: using the commutative, associative and distributive laws for rational numbers and laws of exponents to: – add and subtract like terms in algebraic expressions. – multiply integers and monomials by: monomials, binomials, trinomials – divide the following by integers or monomials: monomials, binomials, trinomials – simplify algebraic expressions involving the above operations – determine the squares, cubes, square roots and cube roots of single algebraic terms or like algebraic terms **N.B. ENSURE THAT COMMON FRACTIONS AND DECIMAL FRACTIONS ARE PART OF CALCULATIONS WITH EXPRESSIONS (Page 122 and 123 of CAPS)** • Extend the above algebraic manipulations to include: – multiply integers and monomials by polynomials, – divide polynomials by integers or monomials, – the product of two binomials, the square of a binomial • Determine the numerical value of algebraic expressions by substitution **Factorize algebraic expressions** • Factorize algebraic expressions that involve: – common factors – difference of two squares – trinomials of the form: ✓ $x^2 + bx + c$ ✓ $ax^2 + bx + c$, where *a* is a common factor. • Simplify algebraic expressions that involve the above factorisation processes. • Simplify algebraic fractions using factorisation	**ALGEBRAIC EQUATIONS** • **Revise the following:** – set up equations to describe problem situations – analyse and interpret equations that describe a given situation – Solve equations by inspection – using additive and multiplicative inverses using laws of exponents – Solve equations by substitution – Use substitution in equations to generate tables of ordered pairs • Extend solving equations to include: – using factorisation – equations of the form: a product of factors = 0	**FUNCTIONS AND RELATIONSHIPS** **Input and output values** • Determine input values, output values or rules for patterns and relationships using: – flow diagrams – tables – formulae – equations **Equivalent forms** • Determine, interpret and justify equivalence of different descriptions of the same relationship or rule presented: – verbally – in flow diagrams – in tables – by formulae – by equations – by graphs on a Cartesian plane	**REVISION**	**FORMAL ASSESSMENT TASK** **TEST** All Term 1 & 2 topics

Prerequisite skill or pre-knowledge		• Common and decimal fractions • Algebraic language • Factors and multiples • Expand and simply algebraic expressions • Substitution • Determine the squares, cubes, square roots and cube roots of single algebraic terms or like algebraic terms	• Write number sentences to describe problem situations • Analyse and interpret number sentences that describe a given situation • Solve and complete number sentences by: – inspection – trial and improvement • Identify variables and constants in given formulae or equations • Use substitution in equations to generate tables of ordered pairs • Extend solving equations to include: – using additive and multiplicative inverses – using laws of exponents				