

TERM 2		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	3 hrs.	9 hrs.		11 hrs.			9 hrs.		9 hrs.		9 hrs.	
% Coverage		5.4 (30.4%)		4.4 (34.8%)			6.5 (41.3%)		8.7 (50%)			
Topics, concepts and skills	FORMAL ASSESSMENT TASK INVESTIGATION N.B. Administer an investigation on any ONE of the Term 2 topics before teaching it	EXPONENTS: Mental calculations - Determine squares to at least 12^2 and their square roots - Determine cubes to at least 6^3 and their cube roots Comparing and representing numbers in exponential form - Compare and represent whole numbers in exponential form: $a^b = a \times a \times a \times \dots$ for b number of factors Calculations using numbers in exponential form - Recognize and use the appropriate laws of operations with numbers involving exponents and square and cube roots - Calculations involving all four operations using numbers in exponential form, limited exponents up to 5, and square and cube roots		INTEGERS: Counting, ordering and comparing integers - Count forwards and backwards in integers for any interval - Recognize, order and compare integers Calculations with integers - Add and subtract with integers Properties of integers - Recognize and use commutative and associative properties of addition for integers			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 constant - difference or ratio - of learner's own creation - represented in tables - Describe and justify the general rules for observed relationships between numbers in own words		FUNCTIONS AND RELATIONSHIPS: Input and output values - Determine input values, output values or rules for patterns and relationships using: - flow diagrams - tables - formulae 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 number sentences		REVISION AND FORMAL ASSESSMENT TASK TEST All Term 1 & 2 topics	
Prerequisite skill or pre-knowledge		- All four operations with whole numbers - Comparing whole numbers		- Number line - Addition and subtraction with whole numbers			- All operations with whole numbers - Addition and subtraction as inverse operations - Multiplication and division as inverse operations (with whole numbers) - Addition and subtraction of integers - Investigate and extend numeric and geometric patterns looking for relationships in patterns not limited to constant difference or ratio - Describe the general rules for the observed relationships with patterns limited to constant difference or ratio		- Input and output values with whole numbers - Equivalent representations of different descriptions of the same relationship or rule presented - verbally - in a flow diagram - in a table - by a number sentence - Rules for calculating the areas of squares and rectangles - Rules for calculating the volume of rectangular prisms			