

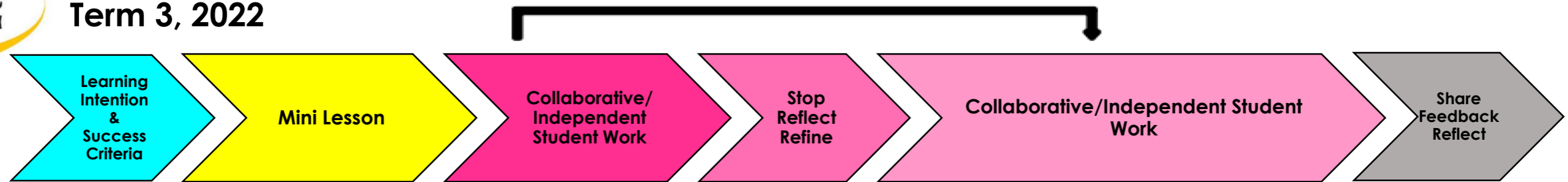


Maths Term Overview

Term 3, 2022

Based on research from the Workshop Model and Gradual Release of Responsibility

- Atwell, N. (1987). *In the Middle: Writing, Reading and Learning with Adolescents*, second edition. Portsmouth: Heinemann. Calkins, L. (2010). *A Guide to the Reading Workshop*. Portsmouth: Heinemann.
- Tovani, C. (2011). *So What Do They Really Know?* Portland: Stenhouse.
- Fisher, D. and Frey, N. (2014). *Better Learning Through Structured Teaching: A Framework for the Gradual Release of Responsibility, 2nd Edition*. 2nd ed. Alexandria: ASCD.



		Number & Algebra	Measurement & Geometry	Statistics & Probability
Foundation	The proficiency strands Understanding, Fluency, Problem Solving and Reasoning are an integral part of the Maths curriculum across the three content strands:	<ul style="list-style-type: none"> Establish understanding of the language and processes of counting by naming numbers in sequences, initially to and from 20, moving from any starting point [VCMNA069] Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond [VCMNA070] Subitise small collections of objects [VCMNA071] Compare, order and make correspondences between collections, initially to 20, and explain reasoning [VCMNA072] 	<ul style="list-style-type: none"> Describe position and movement [VCMMG082] Compare and order the duration of events using the everyday language of time [VCMMG079] Connect days of the week to familiar events and actions [VCMMG080] 	
Year 1	Number & Algebra, Measurement & Geometry and Statistics & Probability The four processes will continue to be embedded across each term.	<ul style="list-style-type: none"> Develop confidence with number sequences to and from 100 by ones from any starting point. Skip count by twos, fives and tens starting from zero [VCMNA086] Recognise, model, read, write and order numbers to at least 100. Locate these numbers on a number line [VCMNA087] Count collections to 100 by partitioning numbers using place value [VCMNA088] Represent and solve simple addition and subtraction problems using a range of strategies including counting on, partitioning and rearranging parts [VCMNA089] Represent practical situations that model sharing [VCMNA090] Recognise and describe one-half as one of two equal parts of a whole [VCMNA091] Recognise, describe and order Australian coins according to their value [VCMNA092] Investigate and describe number patterns formed by skip counting and patterns with objects [VCMNA093] Recognise the importance of repetition of a process in solving problems [VCMNA094] 	<ul style="list-style-type: none"> Measure and compare masses and capacities of pairs of objects using uniform informal units [VCMMG095] Tell time to the half-hour [VCMMG096] Describe duration using months, weeks, days and hours [VCMMG097] Recognise and classify familiar two-dimensional shapes and three-dimensional objects using obvious features [VCMMG098] Give and follow directions to familiar locations [VCMMG099] 	<ul style="list-style-type: none"> Identify outcomes of familiar events involving chance and describe them using everyday language such as 'will happen', 'won't happen' or 'might happen' [VCMSP100]
Year 2		<ul style="list-style-type: none"> Investigate number sequences, initially those increasing and decreasing by twos, threes, fives and ten [VCMNA103] Recognise, model, represent and order numbers to at least 1000 [VCMNA104] Group, partition and rearrange collections up to 1000 [VCMNA105] Explore the connection between addition and subtraction [VCMNA106] Solve simple addition and subtraction problems using a range of efficient mental and written strategies [VCMNA107] Recognise and represent multiplication as repeated addition, groups and arrays [VCMNA108] Recognise and interpret common uses of halves, quarters and eighths of shapes and collections [VCMNA110] Describe patterns with numbers and identify missing elements [VCMNA112] Solve problems by using number sentences for addition or subtraction [VCMNA113] 	<ul style="list-style-type: none"> Compare and order several shapes and objects based on length, area, volume and capacity using appropriate uniform informal units [VCMMG115] Compare masses of objects using balance scales [VCMMG116] Tell time to the quarter-hour, using the language of 'past' and 'to' [VCMMG117] Name and order months and seasons [VCMMG118] Use a calendar to identify the date and determine the number of days in each month [VCMMG119] Describe and draw two-dimensional shapes, with and without digital technologies [VCMMG120] Describe the features of three-dimensional objects [VCMMG121] 	<ul style="list-style-type: none"> Identify practical activities and everyday events that involve chance. Describe outcomes as 'likely' or 'unlikely' and identify some events as 'certain' or 'impossible' [VCMSP125]

Year 3	<ul style="list-style-type: none"> Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems (VCMNA131) Recognise, model, represent and order numbers to at least 10 000 (VCMNA130) Recall multiplication facts of two, three, five and ten and related division facts (VCMNA134) Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies (VCMNA135) 	<ul style="list-style-type: none"> Measure, order and compare objects using familiar metric units of area, mass and capacity (VCMMG140) Create and interpret simple grid maps to show position and pathways (VCMMG143) Identify angles as measures of turn and compare angle sizes in everyday situations (VCMMG146) 	<ul style="list-style-type: none"> Interpret and compare data displays (VCMSP150)
Year 4	<ul style="list-style-type: none"> Recognise, represent and order numbers to at least tens of thousands (VCMNA152) Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems (VCMNA153) Recall multiplication facts up to 10×10 and related division facts (VCMNA155) Develop efficient mental and written strategies and use appropriate digital technologies for multiplication and for division where there is no remainder (VCMNA156) Explore and describe number patterns resulting from performing multiplication (VCMNA161) Solve word problems by using number sentences involving multiplication or division where there is no remainder (VCMNA162) 	<ul style="list-style-type: none"> Use scaled instruments to measure and compare masses and capacities (VCMMG165) Compare objects using familiar metric units of area and volume (VCMMG166) Compare the areas of regular and irregular shapes by informal means (VCMMG169) Use simple scales, legends and directions to interpret information contained in basic maps (VCMMG172) Compare angles and classify them as equal to, greater than or less than a right angle (VCMMG174) 	<ul style="list-style-type: none"> Evaluate the effectiveness of different displays in illustrating data features including variability (VCMSP180)
Year 5	<ul style="list-style-type: none"> Recognise, represent and order numbers to at least hundreds of thousands (VCMNA186) Recognise that the place value system can be extended beyond hundredths (VCMNA189) Compare, order and represent decimals (VCMNA190) Create simple financial plans (VCMNA191) 	<ul style="list-style-type: none"> Compare 12- and 24-hour time systems and convert between them (VCMMG197) Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries (VCMMG200) 	<ul style="list-style-type: none"> Recognise that probabilities range from 0 to 1 (VCMSP204)
Year 6	<ul style="list-style-type: none"> Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers and make estimates for these computations (VCMNA209) Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers (VCMNA214) Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies (VCMNA215) Multiply and divide decimals by powers of 10 (VCMNA216) Make connections between equivalent fractions, decimals and percentages (VCMNA217) Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies (VCMNA218) 	<ul style="list-style-type: none"> Connect decimal representations to the metric system (VCMMG222) Connect volume and capacity and their units of measurement (VCMMG225) Convert between common metric units of length, mass and capacity (VCMMG223) 	<ul style="list-style-type: none"> Describe probabilities using fractions, decimals and percentages (VCMSP232) Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies (VCMSP233) Compare observed frequencies across experiments with expected frequencies (VCMSP234)

**Progression may differ slightly