

*Our school community is one with high expectations.
We are collaborative and inclusive of all.
We deliver a 21st century guaranteed and viable curriculum that results in outstanding student achievement.*

The Maths Curriculum links directly to:

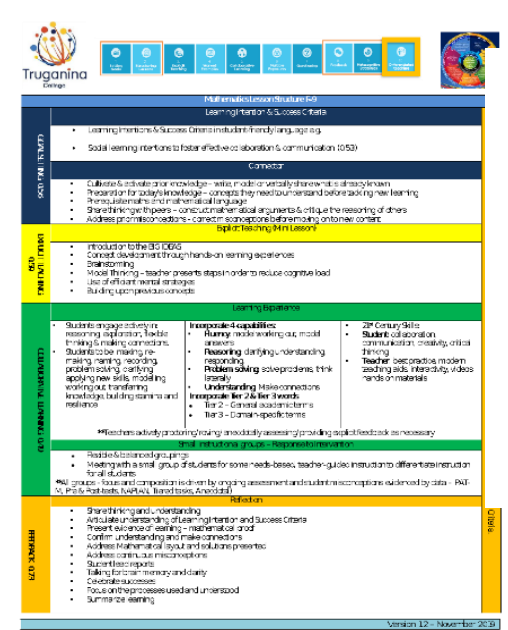
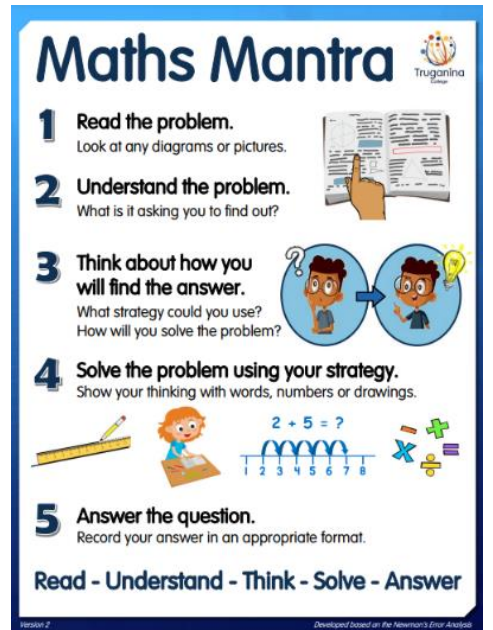
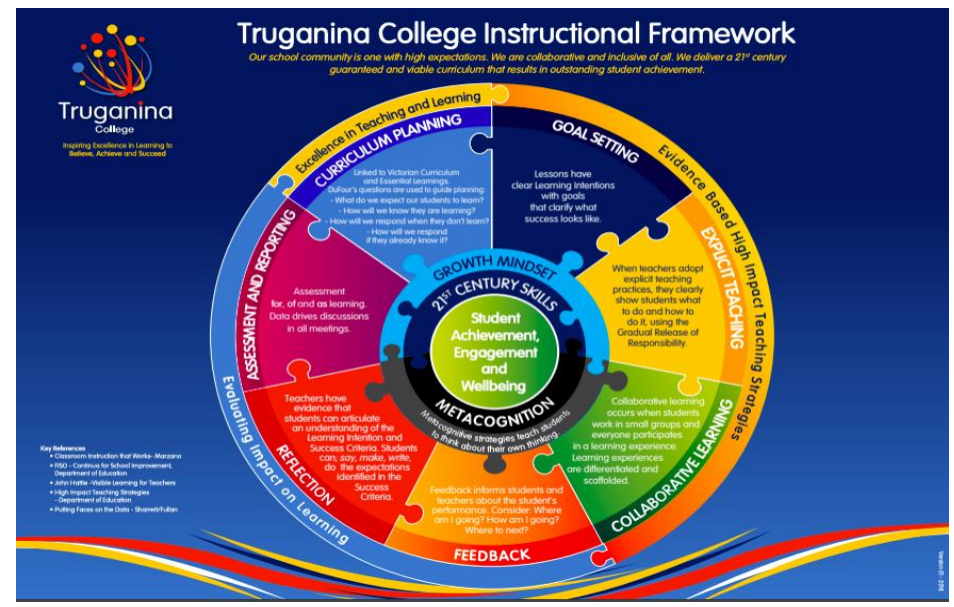


2020
2021
2022
2023

The planning, teaching and learning of the Maths Curriculum links directly to the College's Strategic Plan goals:

- **Goal 1: To grow each student's learning outcomes across all curriculum areas, with a focus on Literacy and Numeracy.**

Instructional Framework Maths Mantra Maths Lesson Structure



- **21st century learning**
- *Ways of Thinking: Creativity & Innovation, Critical Thinking, Problem Solving & Decision Making, Learning to Learn*
- *Ways of Working: Communication & Collaboration*
- *Ways of Living in the World: Local & Global Citizenship, Personal & Social Responsibility, Life & Career*
- *Tools for Working: Information Literacy, Information & Communication Technology (ICT) Literacy*

- **Curriculum Planning - Refer to DuFour's questions**
What do we need our students to learn?
How will we know they are learning?
What will we do if they have already learned it?
What will we do if they have not learned?
- **Assessment & Reporting - Data drives discussion in all meetings**
- **NAPLAN minimum standards**
For outlines of the competencies expected of Year 3, 5, 7 and 9 students in Numeracy
<https://www.nap.edu.au/naplan/numeracy/minimum-standards>
- **Maths Proficiency Strands – Understanding, Fluency, Problem Solving and Reasoning**
The four processes will continue to be embedded across each term.
For details of the proficiency strands in the Mathematics Curriculum:
<http://victoriancurriculum.vcaa.vic.edu.au/mathematics/introduction/learning-in-mathematics>
- **The Compass Learning Tasks will be the Common Unit Task for the first unit from Years F to 4.**
- **Mental Strategies A – S will be based on the Truganina College Efficient Mental Strategies**
- **Big Ideas in number outline of concepts**
- **Misconceptions are based on MOI and Common Unit Assessments as questions from these tests have been taken from previous NAPLAN and PAT Assessments**
- **MOI Addition and Subtraction Assessments to be completed**
- **F – Year 6 Yearly Overview**

Foundation	Year 1	Year 2	Year 3	Year 4
<p>Number & Algebra Comparing collections 0 - 10 Unit (VCMNA071) The focus of this unit at Foundation is:</p> <ul style="list-style-type: none"> Explore the concept of 'how many' without counting Connect ordinal names with numeral representations Identify order of objects or people Compare collections to identify which has more, less or the same <p>Measurement & Geometry Time (Order of Events) Unit (VCMMG079) The focus of this unit at Foundation is:</p> <ul style="list-style-type: none"> Sequence familiar events in time using ordinal numbers Compare duration of simple events <p>Using Units of Measurement (Length and Height) (VCMMG078) The focus of this unit at Foundation is:</p> <ul style="list-style-type: none"> Compare lengths and heights using simple mathematical language, such as longer and shorter. <p>Shapes and Objects Unit (2D shapes) (VCMMG081) The focus of this unit at Foundation is:</p> <ul style="list-style-type: none"> Recognise, name and describe simple features of common 2D shapes. Patterns <ul style="list-style-type: none"> Investigate and describe similarities and differences between objects, including colour and size Make patterns using given objects <p>Statistics and Probability Data Unit (VCMSPO83) (VCMSPO84) (VCMSPO85) The focus of this unit at Foundation is:</p> <ul style="list-style-type: none"> Ask simple questions about familiar topics to elicit yes/no responses Interpret simple displays of data Use simple displays to represent answers to basic questions Answer questions based on data display. 	<p>Number & Algebra Addition and Subtraction Unit (VCMNA089) The focus of this unit at the Level 1 is:</p> <ul style="list-style-type: none"> Practise counting on strategy for simple addition (Outcome that students identify the larger of two numbers) Divide numbers into two smaller numbers and explore how to make addition easier (Partitioning Numbers) Explore and practise the counting back strategy for simple addition Interpret, represent and solve simple addition and subtraction stories Addition and subtraction with money (need to first have completed Money Unit) <p>Money and Financial Unit (VCMNA092) ** after explicit teaching of features and value of Australian coins, continue exploring money throughout addition and subtraction unit, multiplication and division</p> <p>The focus of this unit at the Level 1 is:</p> <ul style="list-style-type: none"> Identify features of Australian Coins and match these to the value Classify and order coins according to attributes such as size and value <p>Measurement & Geometry 2D Shapes Unit (VCMMG098) The focus of this unit at the Level 1 is:</p> <ul style="list-style-type: none"> Identify features of common shapes and use these to identify and sort them <p>Location Unit (VCMMG099) The focus of this unit at the Level 1 is:</p> <ul style="list-style-type: none"> Understand and interpret location language, such as 'next to' and 'between' and describe the position of one object in relation to another Give and follow directions involving simple mathematical language including 'clockwise' and 'anticlockwise' 	<p>Number & Algebra Addition and Subtraction Unit (VCMNA103) (VCMNA106) (VCMNA111) The focus of this unit at the Level 2 is:</p> <ul style="list-style-type: none"> Explore mental strategies for addition and subtraction including 'getting to 10', partitioning, commutative law and 'turnarounds' (start from larger number). Practise writing and interpreting number sentences and word problems Use number lines and place value blocks to solve addition and subtraction problems and identify the link between the two operations. Explore the commutative law with addition and subtraction Describe, continue and create number patterns (describing addition and subtraction patterns) Write number sentences to match addition and subtraction word problems, and solve them <p>The focus of this unit at the Level 2 is:</p> <ul style="list-style-type: none"> Addition and subtraction with money Identify combinations of coins and notes that have equivalent values Recognising notes and coins (done T1) and finding the total value of collections of money Solve simple problems involving Australian coins and notes <p>Measurement & Geometry Time Unit: Telling the time (VCMMG117) The focus of this unit at the Level 2 is:</p> <ul style="list-style-type: none"> Matching times to familiar events Explore representations of time to the quarter-hour on an analogue clock <p>Length Unit (VCMMG115) The focus of this unit at the Level 2 is:</p> <ul style="list-style-type: none"> Use uniform informal units such as hands or counters to estimate and measure the length of common objects Make comparisons between the lengths of objects <p>Location Unit (VCMMG099) The focus of this unit at the Level 2 is:</p> <ul style="list-style-type: none"> Find objects on a plan or picture according to simple directions (Interpreting Maps) Create a simple plan and describe the position of objects 	<p>Number & Algebra Addition and Subtraction Unit (Money & Financial) (VCMNA132) (VCMNA133) (VCMNA137) (VCMNA138) The focus of this unit at the Level 3 is:</p> <ul style="list-style-type: none"> Explore and apply mental strategies for addition including doubling, splitting numbers and regrouping numbers. Explore and apply subtraction using inverse operations, doubles and friendly numbers and finding the difference between numbers. Choose efficient written methods to solve addition and subtraction problems. Identify and describe and continue number patterns formed by addition and subtraction. Create addition and subtraction number patterns. Addition and subtraction with money <p>The focus of this unit at the Level 3 is:</p> <ul style="list-style-type: none"> Explore different combinations of coins that have an equivalent value, and find strategies to effectively count coins <p>Measurement & Geometry Length Unit (VCMMG140) The focus of this unit at the Level 3 is:</p> <ul style="list-style-type: none"> Use informal and formal units to compare the length of familiar objects. <p>Angles Unit (VCMMG146) The focus of this unit at the Level 3 is:</p> <ul style="list-style-type: none"> Identify, describe and compare angles in the classroom and measure turn using informal tools such as angle finder. <p>Location Unit (VCMMG143) The focus of this unit at the Level 3 is:</p> <ul style="list-style-type: none"> Locate items and give directions to locations on a grid map. Interpret simple maps and create and describe pathways. 	<p>Number & Algebra Addition and Subtraction Unit (VCMNA132) (VCMNA133) (VCMNA151) (VCMNA153) (VCMNA160) (VCMNA163) The focus of this unit at the Level 4 is:</p> <ul style="list-style-type: none"> Explore and apply mental strategies for partitioning and splitting numbers in different ways and making friendly numbers. Explore and apply mental strategies for subtraction including split strategy, split strategy and making friendly numbers. Explore and apply mental strategies for addition and subtraction including split strategy with extended notation, empty number lines and equal addition to friendly numbers. Choose efficient written methods to solve addition and subtraction problems. Use a range of strategies such as drawing the problem and using a table to solve word problems involving addition and subtraction. Identify, describe and complete one and two step number patterns involving whole numbers and decimals with addition and subtraction <p>The focus of this unit at the Level 4 is:</p> <ul style="list-style-type: none"> Explore odd and even numbers Make calculations of money total and change using various decimal currencies. <p>Measurement & Geometry Length Unit (VCMMG165) The focus of this unit at the Level 4 is:</p> <ul style="list-style-type: none"> Use measuring instruments such as rulers to measure length in metres, centimetres and millimetres. <p>Transformation (Symmetry) Unit (VCMMG173) The focus of this unit at the Level 4 is:</p> <ul style="list-style-type: none"> Identify lines of symmetry in shapes and patterns. Create and complete symmetrical pictures and patterns (symmetry). <p>Statistics and Probability Data Unit (VCMSPT78) (VCMSPT79) (VCMSPT80) The focus of this unit at the Level 4 is:</p> <ul style="list-style-type: none"> Design appropriate questions to elicit data required for an investigation and record data collected. Read and record data in tables, column graphs and picture graphs. Identify features of graphs and describe why some data representation methods are more effective than others. Interpret data presented in column graphs and use data to support conclusions.