



Truganina College

Inspiring Excellence in Learning to Believe, Achieve and Succeed.

# Years 5- 9 Maths Overview Term 2, 2023

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

The Maths Curriculum links directly to:

### HIGH IMPACT TEACHING STRATEGIES (HITS)

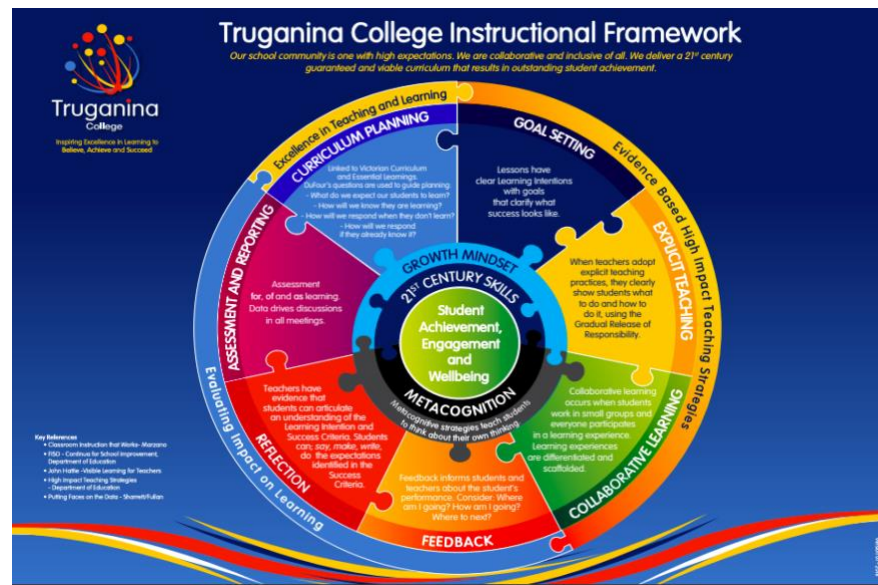


2020  
2021  
2022  
2023

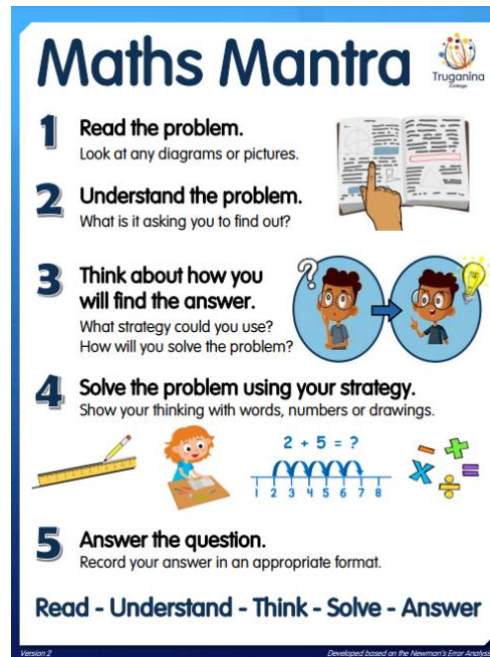
The planning, teaching and learning of the Maths Curriculum links directly to the College's Strategic Plan goals:

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

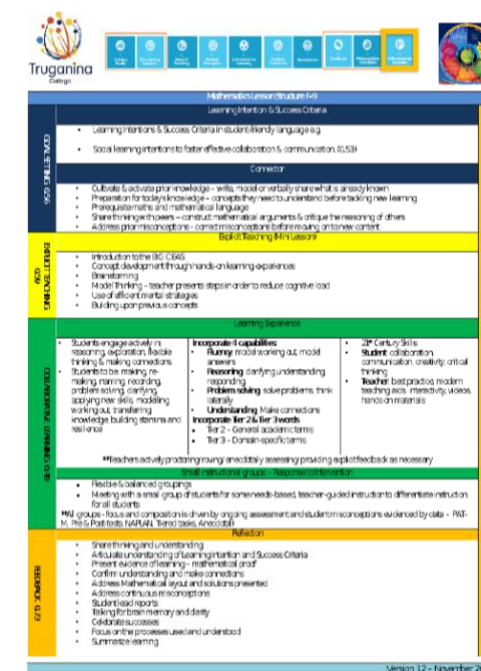
## Instructional Framework



## Maths Mantra



## Maths Lesson Structure



- 21<sup>st</sup> 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 5 to 9.
- Mental Strategies A – 5 will be based on the [Truganina College Efficient Mental Strategies](#)
- Big Ideas in number [outline of concepts](#)
- **Week 8 is post assessment week. All assessments to be completed by Friday of Week 8.**
- Misconceptions are based on pre and post - tests as questions from these tests have been taken from previous NAPLAN and PAT Assessments.

Week	1	2	3	4	5	6	7	8	9	
Year 5	<p>Refer to the Maths Essential Learnings when planning the Maths Curriculum.</p> <p>Differentiated Curriculum Planning to include Small Group Instruction to address misconceptions from Pre-test data.</p>									
	<p><b>Number &amp; Algebra</b> Big Idea in Number: Partitioning Fractions <a href="#">(VCMNA187)</a> <a href="#">(VCMNA188)</a>  Pre-test misconceptions</p>			<p><b>Number &amp; Algebra</b> Big Idea in Number: Place Value Decimals <a href="#">(VCMNA189)</a> <a href="#">(VCMNA190)</a></p>		<p><b>Number &amp; Algebra</b> Number patterns involving addition and subtraction of fractions and decimals <a href="#">(VCMNA192)</a>  Mental Strategy R</p>		<p><b>Statistics &amp; Probability</b> Chance: represent probabilities using fractions from 0-1 <a href="#">(VCMSP203)</a> <a href="#">(VCMSP204)</a></p>		<p><b>Number &amp; Algebra</b> Algorithms involving branching and repetition <a href="#">(VCMNA194)</a></p>
Year 6	<p><b>Number &amp; Place Value</b> Big Idea in Number: Partitioning Compare Fractions <a href="#">(VCMNA211)</a> Connect Fractions, Decimals &amp; Percentages <a href="#">(VCMNA217)</a>  Mental Strategies K</p>		<p><b>Statistics &amp; Probability</b> Chance <a href="#">(VCMSP232)</a> <a href="#">(VCMSP233)</a></p>		<p><b>Number &amp; Place Value</b> Big Idea in Number: Partitioning Addition &amp; Subtraction of Fractions <a href="#">(VCMNA212)</a></p>			<p><b>Number &amp; Place Value</b> Decimals <a href="#">(VCMNA214)</a> <a href="#">(VCMNA215)</a></p>		<p><b>Measurement &amp; Geometry</b> Shape and Angles <a href="#">(VCMMG228)</a> <a href="#">(VCMMG231)</a></p>
	<p><b>Number &amp; Algebra</b> Big Idea in Number: Partitioning Real Numbers and Fractions <a href="#">(VCMNA242)</a> <a href="#">(VCMNA243)</a>  Pre-test misconceptions</p>			<p><b>Statistics &amp; Probability</b> Chance <a href="#">(VCMSP266)</a> <a href="#">(VCMSP267)</a> <a href="#">(VCMSP268)</a></p>		<p><b>Number &amp; Algebra</b> Variables, Algebraic Expressions <a href="#">(VCMNA251)</a> <a href="#">(VCMNA252)</a> <a href="#">(VCMNA253)</a></p>		<p><b>Number &amp; Algebra</b> Cartesian Plane, Linear &amp; Nonlinear Equations <a href="#">(VCMNA254)</a> <a href="#">(VCMNA255)</a> <a href="#">(VCMNA256)</a></p>		
Year 8	<p><b>Measurement &amp; Geometry</b> Duration &amp; 24hr Time <a href="#">(VCMMG290)</a></p>		<p><b>Number &amp; Algebra</b> Patterns &amp; Algebra Algebraic Expressions <a href="#">(VCMNA279)</a> <a href="#">(VCMNA280)</a> <a href="#">(VCMNA281)</a> <a href="#">(VCMNA282)</a></p>				<p><b>Number &amp; Algebra</b> Linear <a href="#">(VCMNA283)</a> <a href="#">(VCMNA284)</a> <a href="#">(VCMNA285)</a></p>			
	<p><b>Number &amp; Algebra</b> Big Idea in Number: Partitioning Review fractions, decimals and percentages</p>			<p><b>Statistics and Probability</b> Data Representation <a href="#">(VCMSP326)</a> <a href="#">(VCMSP324)</a> <a href="#">(VCMSP325)</a></p>		<p><b>Number &amp; Algebra</b> Solving Algebraic Equations <a href="#">(VCMNA310)</a></p>			<p><b>Measurement and Geometry</b> Trigonometry <a href="#">(VCMMG319)</a> <a href="#">(VCMMG320)</a></p>	
Year 9										