

Foundation - Year 4 Maths Overview Term 3, 2024

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 the High Impact Teaching Strategies (HITS)





Effect size



Teacher Clarity: 0.60



Worked Example: 0.60

Worked

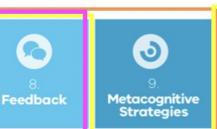
Examples

Effect size





Effect size Effect size Questioning: 0.46 Feedback: 0.73



Effect size Metacognitive



Effect size

Strateaies: 0.60

Response to Intervention: 107

The differentiated Maths Curriculum links directly to the College's Strategic Plan

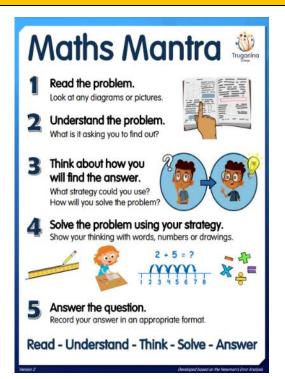
Goal 1: To improve student's learning outcomes in Literacy and Numeracy.

Goal 2: To empower students to become independent and self-regulating learners.

Instructional Framework

Goal 3: To enhance the health and well-being of all students.

Truganina College Instructional Framework



Maths Mantra



21st century learning

Ways of Thinking: Creativity & Innovation, Critical Thinking, Problem Solving & Decision Making, Learning to

2020 2021

2022 2023

2024

- 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

Maths Proficiency Strands

- Understanding, Fluency, Problem Solving and Reasoning

The four processes will continue to be embedded across each term For details of the four strands, refer to the Mathematics Curriculum

- The Compass Learning Tasks will be the Common Assessment Task for the first unit.
- 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
- F Year 6 Yearly Overview

Foundation Year 1 Year 2 Year 3 Year 4 Number & Algebra **Nultiplication and Division Unit** ounting and comparing collections Unit (VCMNA108) (VCMNA109) (VCMNA134) (collections of 20) (VCMNA090) (VCMNA153) (VCMNA154) (VCMNA155) (VCMNA156) VCMNA160) (VCMNA161) (VCMNA162) The focus of this unit at the Level 1 is: The focus of this unit at the Level 2 is: The focus of this unit at the Level 3 is: **(VCMNA072)** investigate number patterns and use skip The focus of this unit at the Level 4 is: Investigate and describe number Investigate number patterns in skip counting. The focus of this unit at Foundation is: • Investigate, describe and compare Use number lines to explore the link between patterns in a 100s charts and use this counting to solve problems. • Explore the number sequence to 20 number patterns made when skip knowledge to assist with skip counting repeated addition and multiplication. Use groupings and arrays to understand forwards and backwards counting by 3, 4, 6, 7, 8, 9. Represent and interpret multiplication as Explore practical situations involving skip multiplication and division and explore Identify number before and after Explore odd and even numbers in skipthe link between two operations to solve counting Identify missing numbers in a sequence counting patterns Represent equal groupings of objects and Use a calculator to observe counting problems (x/÷ facts) Count, recognise and represent Use strategies such as doubling, inverse patterns identify equal shares Use strategies including number lines, numbers in the teens operations and visual arrays to explore Use words, numbers and symbols to record inverse operations and splitting numbers Interpret, represent and solve simple Compare how many more or less items and recall division and multiplication facts. repeated addition and repeated and solve simple division problems to record and solve multiplication and are in collections to 20 Use the strategies including the subtraction stories Skip counting and sharing money division problems. Explore number patterns using a commutative property, halving and the Skip counting and sharing money Interpret word problems involving the calculator split strategy to record and solve four operations and represent them 'Fair share' multiplication and division problems. using materials, drawings and words Measurement & Geometry Addition and Subtraction Unit Use a range of strategies such as drawing (number stories) Measurement & Geometry (Grouping 0 - 10: part-part-whole) **Area Unit** the problem and using a table to solve Explore different strategies to solve the **(VCMNA073)** 3D Objects Unit (VCMMG115) word problems involving the four same problem. The focus of this unit at Foundation is: The focus of this unit at the Level 2 is: NCMMG098) operations. Multiplication and division with money • Begin to explore addends for numbers | The focus of this unit at the Level 1 is: Use uniform informal units such as hands or Identify, describe and complete one and to 10 Identify features (3D shapes) of common counters to estimate and measure the area of two step number patterns involving whole Identify pairs of numbers that make a Measurement & Geometry objects and use them to identify and sort common objects numbers and decimals with multiplication given total • Make comparisons between the areas of them **Area Unit** Make calculations of money total and VCMMG115)(from year 2) objects change using various decimal currencies. (Working towards year 4) Measurement & Geometry Mass Unit The focus of this unit at the Level 3 is: NCMMG095) Mass Unit **Shapes and objects Unit (3D shapes) Measurement & Geometry** Use informal and formal units to The focus of this unit at the Level 1 is: VCMMG116) measure and compare the area of Area Unit measuring to compare by hefting and The focus of this unit at the Level 2 is: The focus of this unit at Foundation is: familiar objects. VCMMG166)(VCMMG169) balance scales Estimate relative mass of objects and use • Recognise, name and describe simple The focus of this unit at the Level 4 is: Mass Unit • make comparisons using mathematical hefting and balance scales to compare features of common 3D objects • Use informal and formal units to estimate. (VCMMG140) language masses. **Patterns** The focus of this unit at the Level 3 is: measure and compare the area of familiar 3D Objects Unit Investigate and describe Estimate, measure and compare the objects (link to multiplication and division (VCMMG121) similarities and differences mass of objects using informal units, The focus of this unit at the Level 2 is: arravs) between objects, including grams and kilograms Represent 3D objects and describe their colour and size (Term 2 & 3 with features using appropriate language **Mass Unit** shape) (VCMMG165) **Location Unit** Make patterns using given The focus of this unit at the Level 4 is: (VCMMG143) objects The focus of this unit at the Level 3 is: • Estimate, measure and compare the mass Locate items and give directions to of different objects using measuring locations on a grid map. instruments including pan balances and interpret simple maps and create and scales describe pathways. **Location Unit** (VCMMG172)

The focus of this unit at the Level 4 is:

legends and scales.

Explore important features including keys,

Updated on 7 June 2024