



Maths Yearly Curriculum Plan

Year Level	Semester 1	Semester 2
Prep	Students will explore numbers, number names, and numerals to twenty, quantities up to ten and subitise small collections. Students will investigate time and sequence events. Students will sort and compare shapes. Students will make and continue patterns involving objects and numbers and solve mathematical problems using a variety of methods.	Students will explore counting and ordering small collections up to twenty and beyond, place value, match numerals and quantities and solve simple addition and subtraction problems. Students will solve word problems. Students will compare objects based on mass, length and capacity and collect information to answer simple questions. Students will connect days of the week to familiar events and describe the position of objects.
Year 1	Students will explore place value up to 100, describe number sequences, locate numbers on a number line and partition numbers to 100. Students will solve simple addition and subtraction problems. Students will collect and present data in various ways and investigate the outcomes of familiar events using chance language. Students will recognise coins and their value. Students will inquire into measurement concepts and will use uniform informal units to measure and compare the length and capacity of objects.	Students will describe and continue number sequences and patterns, locate numbers on a number line, and partition numbers using place value. Students will explore fractions (half and whole) and solve simple addition and subtraction problems using problem solving strategies. Students will tell the time to the half hour and classify two dimensional and three-dimensional shapes. Students will use directional language to describe how to move from one place to another.
Year 2	Students will explore place value to 1000 and partition numbers. Students will solve problems involving addition and subtraction using a range of mental computation strategies and explore the connection between addition and subtraction. Students will describe the features of two-dimensional figures and three-dimensional objects and investigate the effect of transformations on shapes. Students will interpret simple maps, represent fractions (quarter, half and eighths) and solve money problems by counting and ordering small collections. Students will compare and order shapes based on length, area and capacity using informal units and will compare the mass of objects.	Students will explore numbers to 1000, partition numbers, and explore number sequences and patterns. Students will solve addition and subtraction problems using problem solving strategies and represent multiplication and division problems. Students will tell time to the quarter hour, order months of the year and use and interpret a calendar. Students will investigate probabilities and use chance language to describe events. Students will collect and classify data and create data displays.
Year 3	Students will explore place value to 10 000, partition numbers using place value, investigate odd and even numbers and continue, create and describe number patterns. Students will solve problems involving addition, subtraction and multiplication. Students will measure, compare and order objects using metric units. Students will create and interpret grid maps.	Students will explore place value to 10000, partition numbers and represent fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{5}$). Students will represent money values and count out change. Students will solve problems involving operations using efficient strategies. Students will conduct chance experiments and list possible outcomes. Students will interpret and compare data displays and conduct data investigations. Students will tell time to the minute and investigate the relationship between units of time. Students will inquire into two dimensional figures and three-dimensional objects, angles and symmetry.
Year 4	Students will explore odd and even numbers, place value to at least 10 000, investigate number sequences involving multiples, partition numbers and identify equivalent number sentences. Students will recall multiplication and division facts and solve word problems relating to the four operations. Students will solve purchasing problems and calculate change. Students will use scaled instruments to measure and compare objects using metric units. Students will convert units of time and solve problems related to time. Students will interpret information contained in maps.	Students will explore number sequences involving multiples, describe number patterns involving multiplication, recall multiplication and division facts and calculate multiplication and division problems. Students will solve problems involving operations using efficient strategies. Students will describe the connection between fractions and decimals, recognise equivalent fractions and locate fractions on number lines. Students will compare the areas of shapes. Students will create symmetrical pictures, patterns and shapes. Students will compare and classify angles. Students will investigate probabilities, describe effective methods to collect data and construct data displays.
Year 5	Students will identify and describe factors and multiples. Students will recognise place value beyond hundredths and compare, order and represent decimals. Student will solve problems involving the four operations using efficient strategies. Students will use a grid reference system to locate positions on a map. Students will compare 12- and 24-hour time and convert between them. Students will connect three dimensional shapes with their nets, describe transformations and apply enlargement transformation to familiar shapes. Students will identify symmetries and measure and compare angles. Students will calculate perimeter and area of shapes and will choose appropriate units of measurement when measuring.	Students will continue, create and describe patterns involving fractions, decimals and whole numbers resulting from addition and subtraction. Students will solve problems involving the four operations using efficient strategies and checked for reasonableness of answers. Students will compare and order fractions and decimals, and locate them on number lines. Students will investigate strategies to solve problems involving the addition and subtraction of fractions. Students will identify unknown quantities in number sentences and plan a simple budget. Students will conduct chance experiments and recognise that probabilities range from 0 to 1. Students will construct data displays and describe and interpret different data sets.
Year 6	Students will explore properties of numbers including prime, composite, square and triangular numbers. Students will represent whole and fractional numbers on a number line. Students will explore whole numbers, fractions and decimals in patterns and describe the rule used. Students will add and subtraction fractions. Students will make connections between equivalent fractions, decimals and percentages. Students will investigate Powers of 10 and order of operations. Students will solve problems involving the four operations. Students will inquire into transformations and construct prisms and pyramids. Students will explore a Cartesian Plane using all four quadrants and will plot ordered pairs. Students will interpret and solve problems involving timetables. Students will identify angles and use strategies to find an unknown angle.	Students will explore whole numbers, fractions and decimals in patterns and describe the rule used. Students will add and subtract decimal numbers using rounding to check for reasonableness. Students will multiply and divide decimal numbers. Students will investigate and calculate percentage discount. Students will investigate Powers of 10 and order of operations. Students will solve problems relating to the four operations using efficient strategies. Students will inquire into measurement; making links to the metric system and compare lengths and areas. Students will make connections between volume and capacity. Students will compare and interpret different data displays and interpret secondary data printed in media. Students will conduct chance experiments and describe probabilities using fractions, decimals and percentages.