

# Australian Curriculum: 2024 Mathematics — Year 4



CURRICULUM	SEMESTER 1		SEMESTER 2	
	Unit 1	Unit 2	Unit 3	Unit 4
<b>Unit description</b>	<ul style="list-style-type: none"> <li>Number and place value — make connections between representations of numbers; partition and combine numbers flexibly; recall multiplication facts; formulate, model and record authentic situations involving operations; compare large numbers; generalise from number properties and results of calculations; and derive strategies for unfamiliar multiplication and division tasks</li> <li>Fractions and decimals — communicate sequences of simple fractions</li> <li>Patterns and algebra — use properties of numbers to continue patterns</li> <li>Using units of measurement — use appropriate language to communicate times, compare time durations and use instruments to accurately measure lengths</li> <li>Chance — compare dependent and independent events, describe probabilities of everyday events</li> <li>Data representation and interpretation — collect and record data, communicate information using graphical displays and evaluate the appropriateness of different displays.</li> </ul>	<ul style="list-style-type: none"> <li>Number and place value — recognise, read and represent five-digit numbers; identify and describe place value in five-digit numbers; partition numbers using standard and non-standard place value parts; compare and order five-digit numbers; identify odd and even numbers; make generalisations about the properties of odd and even numbers; make generalisations about adding, subtracting, multiplying and dividing odd and even numbers; recall 3s, 6s and 9s facts; solve multiplication and division problems; use informal recording methods and strategies for calculations; apply mental and written strategies to computation</li> <li>Fractions and decimals — revisit and develop understanding of the proportion and relationships between fractions in the halves family and thirds family, count and represent fractions on number lines, represent fractions using a range of models, solve fraction problems from familiar contexts</li> <li>Location and transformation — investigate the features on maps and plans; identify the need for legends; investigate the language of location, direction and movement; find locations using turns and everyday directional language; identify cardinal points of a compass; investigate compass directions on maps; investigate the purpose of scale; apply scale to maps and plans; explore mapping conventions, plan and plot routes on maps; explore appropriate units of measurement and calculate distances using scales</li> </ul>	<ul style="list-style-type: none"> <li>Number and place value — interpret number representations; sequence number values; apply number concepts and place value understanding to the calculation of addition, subtraction, multiplication and division; develop fluency with multiplication fact families, apply mental and written computation strategies, recall multiplication and division facts and apply place value to partition and regroup numbers to assist calculations</li> <li>Fractions and decimals — partition to create fraction families; identify, model and represent equivalent fractions; count by fractions; solve simple calculations involving fractions with like denominators, model and represent tenths and hundredths, make links between fractions and decimals, count by decimals, compare and sequence decimals</li> <li>Using units of measurement — use scaled instruments to measure and compare length, mass, capacity and temperature, measure areas using informal units and investigate standard units of measurement</li> <li>Shape — compare the areas of regular and irregular shapes using informal units of area measurement</li> </ul>	<ul style="list-style-type: none"> <li>Number and place value — calculate addition and subtraction using a range of mental and written strategies, recall multiplication and related division facts, calculate multiplication and division using a range of mental and written strategies, solve problems involving the four operations, use estimation and rounding, apply mental strategies, add, subtract, multiply and divide two- and three-digit numbers</li> <li>Fractions and decimals — count and identify equivalent fractions, locate fractions on a number line, read and write decimals, identify fractions and corresponding decimals, compare and order decimals (to hundredths)</li> <li>Money and financial mathematics — calculate change to the nearest five cents, solve problems involving purchases</li> <li>Patterns and algebra — use equivalent multiplication and division number sentences to find unknown quantities</li> <li>Using units of measurement — use am and pm notation, solve simple time problems</li> <li>Shape — measure area of shapes, compare the areas of regular and irregular shapes by informal means</li> <li>Data representation and interpretation — write questions to collect data, collect and record data, display and interpret data.</li> </ul>

ASSESSMENT	SEMESTER 1				SEMESTER 2				
	Term 1		Term 2		Term 3		Term 4		
	Recalling & using multiplication and division facts	Identifying chance experiments	Using properties of odd and even numbers	Recalling multiplication and division, maps and angles	Comparing areas and using measurement	Recognising and locating fractions	Connecting decimals and fractions	Analysing data	Solving purchasing problems
<b>Aspects of the achievement standard</b>									
students choose appropriate strategies for calculations involving multiplication and division									
recognise common equivalent fractions in familiar contexts and make connections between fraction and decimal notations up to two decimal places									
solve simple purchasing problems									
identify and explain strategies for finding unknown quantities in number sentences									
describe number patterns resulting from multiplication									
compare areas of regular and irregular shapes using informal units									
solve problems involving time duration									
interpret information contained in maps									
identify dependent and independent events									
describe different methods for data collection and representation, and evaluate their effectiveness.									
use the properties of odd and even numbers									
recall multiplication facts to 10 x 10 and related division facts									
locate familiar fractions on a number line									
continue number sequences involving multiples of single digit numbers									
use scaled instruments to measure temperatures, lengths, shapes and objects									
convert between units of time									
create symmetrical shapes and patterns									
classify angles in relation to a right angle									
list the probabilities of everyday events									
construct data displays from given or collected data									

