



Australian Curriculum: 2024 Mathematics — Year 6 (5/6C)

CURRICULUM	SEMESTER 1		SEMESTER 2	
	Term 1	Term 2	Term 3	Term 4
Unit description	<ul style="list-style-type: none"> Patterns and algebra — continue and create sequences involving whole numbers and decimals, describe the rule used to create these sequences and explore the use of order of operations to perform calculations Interpret and use timetables Number and place value — select and apply mental and written strategies and Digital Technologies to solve problems involving multiplication and division with whole numbers Patterns and algebra — continue and create sequences involving whole numbers and decimals, describe the rule used to create these sequences and explore the use of order of operations to perform calculations Number and place value — solve problems using the order of operations, solve multiplication and division problems using a written algorithm 	<ul style="list-style-type: none"> Fractions and decimals — add and subtract fractions with related denominators, calculate a fraction of a quantity, multiply and divide decimals by powers of ten, add and subtract decimals, multiply decimals by whole numbers, divide numbers that result in tenths and hundredths and solve problems involving fractions and decimals Fractions and decimals — apply mental and written strategies to add and subtract decimals, solve problems involving decimals, make generalisations about multiplying whole numbers and decimals by 10, 100 and 1 000, apply mental and written strategies to multiply decimals by one-digit whole numbers, and locate, order and compare fractions with related denominators and locate them on a number line 	<ul style="list-style-type: none"> Using units of measurement — connect decimals to the metric system, convert between units of measure, comparing length and solve problems involving length and area and connect volume and capacity Location and transformation — apply translations, reflections and rotations to create symmetrical shapes, identify the four quadrants on a Cartesian plane, plot and locate ordered pairs in all four quadrants, applying one-step transformation and describe the effect of combinations of translations, reflections and rotations Geometric reasoning — make generalisations about angles on a straight line, angles at a point and vertically opposite angles, and use these generalisations to find unknown angles. 	<ul style="list-style-type: none"> Chance — conduct chance experiments; record data in a frequency table; calculate relative frequency; write probability as a fraction, decimal or per cent; compare observed and expected frequencies Data representation and interpretation — revise different types of data displays, interpret data displays, investigate the similarities and differences between different data displays, identify the purpose and use of different displays and identify the difference between categorical and numerical data.
General capabilities				
Cross-curriculum priorities				

ASSESSMENT	SEMESTER 1				SEMESTER 2			
	Term 1	Term 2	Term 3	Term 4	Term 1	Term 2	Term 3	Term 4
Assessment	Assessment	Order of operations and solving problems	Interpreting and using timetables	Calculating fractions and decimals	Solving problems involving length, area, volume and capacity	Investigating angles and constructing prisms and pyramids	Describing probabilities and comparing frequencies	Interpreting and comparing data displays
	Technique							
	Type of text							
	Mode							

Aspects of the achievement standard								
recognise the properties of prime, composite, square and triangular numbers								
describe the use of integers in everyday contexts								
solve problems involving all four operations with whole numbers								
connect fractions, decimals and percentages as different representations of the same number								
solve problems involving the addition and subtraction of related fractions								
make connections between the powers of 10 and the multiplication and division of decimals								
describe rules used in sequences involving whole numbers, fractions and decimals								
connect decimal representations to the metric system and choose appropriate units of measurement to perform a calculation								
make connections between capacity and volume								
solve problems involving length and area								
interpret timetables								
describe combinations of transformations								
solve problems using the properties of angles								
compare observed and expected frequencies								
interpret and compare a variety of data displays including those displays for two categorical variables								
interpret secondary data displayed in the media								
locate fractions and integers on a number line								
calculate a simple fraction of a quantity								
add, subtract and multiply decimals and divide decimals where the result is rational								
calculate common percentage discounts on sale items								
write correct number sentences using brackets and order of operations								
locate an ordered pair in any one of the four quadrants on the Cartesian plane								
construct simple prisms and pyramids								
describe probabilities using simple fractions, decimals and percentages								

