Australian Curriculum: 2024 Mathematics — Year 6

CURRICULUM	SEMESTER 1		SEMESTER 2	
	Term 1	**Term 2**	**Term 3**	**Term 4**
Unit name	Timetabling, order of operations	Investigating angles, fractions and decimals	Number properties and percentages, locating integers and describing transformations	Chance and data, Graph with Science
Unit description	• 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	• 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. • 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 • Money and financial mathematics — investigate and calculate percentage discounts of 10%, 25% and 50% on sale items • 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	• Number and place value — identify and describe properties of prime, composite, square and triangular numbers, multiply and divide using written methods including a standard algorithm, • solve problems involving all four operations with whole numbers, locating and representing positive and negative integers and solving problems involving integers • Number and place value — select and apply mental and written strategies and Digital Technologies to solve problems involving multiplication and division with whole numbers, and identify, describe and continue square and triangular numbers • 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	• 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**
Assessment	Assessment	Interpreting and using timetables / Order of operations	Investigating angles / Fractions and decimals, volume and capacity	Number properties and percentages / Locating integers and describing transformations	Chance and data / Graph with science
	Technique	Test / Test	Test / Test	Test / Test	Test / Test
	Type of text	Short response / Short response	Short response / Short response	Short response / Short response	Short response / Short response
	Mode	Written / Written	Written / Written	Written / Written	Written / Written

Aspects of the achievement standard

	T1a	T1b	T2a	T2b	T3a	T3b	T4a	T4b
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							■	