Australian Curriculum Year 6

Number & Algebra

	Achievement Standard	Content Descriptor – the student will...	Term 1	Term 2	Term 3	Term 4
Number and Place Value	By the end of Year 6 students **recognise the properties of prime, composite, square and triangular numbers.** They **describe the use of integers in everyday contexts.** Students **solve problems involving the all four operations with whole numbers.**	Identify and describe properties of prime, composite, square and triangular numbers				
		Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers				
		Investigate everyday situations that use positive and negative whole numbers and zero. Locate and represent these numbers on a number line.				
Fractions & Decimals	By the end of Year 6 students **connect fractions, decimals and percentages as representations of the same number.** They **solve problems involving the addition and subtraction of related fractions.** Students make connections between the powers of 10 and the multiplication & division of decimals. Students **locate fractions and integers on a number line.** They **calculate a simple fraction of a quantity.** They **add, subtract and multiply decimals and divide decimals where the result is rational.**	Compare fractions with related denominators and locate and represent them on a number line				
		Solve problems involving addition and subtraction of fractions with the same and related denominators				
		Find a simple fraction of a quantity where the result is a whole number, with or without digital technologies				
		Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers				
		Multiply decimals whole numbers and perform divisions that result in terminating decimals, with and without technologies				
		Multiply and divide decimals by powers of 10				
		Make connections between equivalent fractions, decimals and percentages				
Money & Financial Matters	By the end of Year 6 students **calculate common percentage discounts on sale items.**	Investigate and calculate percentage discounts of 10%, 25% & 50% on sale items, with and without digital technologies				
Patterns & Algebra	By the end of Year 6 students **describe rules used in sequences involving whole numbers, fractions and decimals.** Students **write correct number sentences using brackets and order of operations.**	Continue and create sequences involving whole numbers, fractions and decimals. Describe the rule used to create the sequence.				
		Explore the use of brackets and order of operations to write number sentences				

Statistics & Probability

	Achievement Standard	Content Descriptor – the student will...	Term 1	Term 2	Term 3	Term 4
Chance	By the end of Year 6 students compare observed and expected frequencies. Students list and communicate probabilities using simple fractions, decimals and percentages.	Describe probabilities using fractions, decimals and percentages				
		Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies				
		Compare observed frequencies across experiments with expected frequencies				
Data interpretation & Representation	By the end of Year 6 students interpret and compare a variety of data displays including those displays for two categorical variables. They evaluate secondary data displayed in the media.	Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables				
		Interpret secondary data presented in digital media and elsewhere				

Measurement & Geometry

		Achievement Standard	Content Descriptor – the student will...	Term 1	Term 2	Term 3	Term 4
Using Units of Measurement	Length, Area, Mass & Capacity	By the end of Year 6 students connect decimal representations to the metric system and choose appropriate units of measurement to perform a calculation. They make connections between capacity and volume. They solve problems involving length and area.	Connect decimal representations to the metric system				
			Solve problems involving the comparison of lengths and areas using appropriate units				
			Convert between common metric units of length, mass and capacity				
			Connect volume and capacity and their units of measurement				
	Time	By the end of Year 6 students interpret timetables.	Interpret and use timetables				
Shape		By the end of Year 6 students construct simple prisms and pyramids.	Construct simple prisms and pyramids				
Location & Transformation	Transformation	By the end of Year 6 students describe combinations of transformations. Students locate an ordered pair in any one of the four quadrants on the Cartesian plane.	Investigate combinations of translations, reflections and rotations, with and without digital technologies				
			Introduce the Cartesian coordinates system using all four quadrants				
Geometric Reasoning	Angles	By the end of Year 6 students solve problems using the properties of angles.	Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles.				