



MATHEMATICS

Yr 6 Achievement Standards

BY THE END OF THE YEAR, STUDENTS SHOULD BE ABLE TO:

Number and Algebra

- Identify and describe features of prime, composite, square and triangle numbers
- Investigate everyday situations that use integers. Locate and represent these numbers on a number line
- Select and apply efficient mental and written strategies and use appropriate digital technologies to solve problems involving all four operations with whole numbers
- Compare fractions with related denominations (where one is a multiple of the other) and locate and represent them on a number line
- Solve problems involving addition and subtraction of fractions with the same or related denominators
- Find a simple fraction of a quantity where the result is a whole number, with and 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 by whole numbers and perform division by whole numbers where the results are decimals that end, with and without digital technologies
- Multiply and divide decimals by powers of 10
- Make connections between equivalent fractions, decimals and percentages
- Investigate and calculate percentage discounts of 10% 25% and 50% on sale items, with and without digital technologies
- 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 sequences

Measurement and Geometry

- Connect decimal representation to the metric system
- Convert between common metric units of length, mass and capacity
- Solve problems involving the comparison of lengths and area using appropriate units
- Connect volume and capacity and their units of measurement
- Interpret and use timetables
- Construct simple prisms and pyramids
- Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies
- Introduce the cartesian coordinates system using all four quadrants
- Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use the results to find unknown angles

Statistics and Probability

- Describe probabilities using fractions, decimals and percentages
- Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies
- Compare observed occurrences across experiments with expected occurrences
- 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