Stage 2 Mathematics

STAGE STATEMENT

Mathematics Stage 2

By the end of Stage 2, students ask questions and use efficient mental and written strategies with increasing fluency to solve problems. They use technology to investigate mathematical concepts and check their solutions. Students use appropriate terminology to describe and link mathematical ideas, check statements for accuracy and explain their reasoning.

Students count, order, read and record numbers of up to five digits. They use informal and formal mental and written strategies to solve addition and subtraction problems. Students use mental strategies to recall multiplication facts up to 10 × 10 and related division facts. They use informal written strategies for multiplication and division of two-digit numbers by one-digit numbers. Students represent, model and compare commonly used fractions, and model, compare and represent decimals of up to two decimal places. Students perform simple calculations with money and solve simple purchasing problems. They record, describe and complete number patterns and determine missing numbers in number sentences. Students recognise the properties of odd and even numbers.

Students estimate, measure, compare, convert and record length, area, volume, capacity and mass using formal units. They read and record time in hours and minutes, convert between units of time, and solve simple problems involving the duration of time. Students name, describe and sketch particular three-dimensional objects and two-dimensional shapes. They combine and split two-dimensional shapes to create other shapes. They compare angles using informal means and classify angles according to their size. Students use a grid-reference system to describe position, and compass points to give and follow directions. They make simple calculations using scales on maps and plans.

Students collect and organise data, and create and interpret tables and picture and column graphs. They list all possible outcomes of everyday events, and describe and compare chance events in social and experimental contexts.

Mathematics Outcomes	Stage 2
Mathematics K-10 MA2-4NA applies place value to order, read and represent numbers of up to five digits MA2-5NA uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers MA2-6NA uses mental and informal written strategies for multiplication and division MA2-7NA represents, models and compares commonly used fractions and decimals MA2-8NA generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values MA2-9MG measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures MA2-10MG measures, records, compares and estimates areas using square centimetres and square metres MA2-11MG measures, records, compares and estimates volumes and capacities using litres, millilitres and cubic centimetres MA2-12MG measures, records, compares and estimates the masses of objects using kilograms and grams MA2-14MG makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features MA2-15MG manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features MA2-16MG identifies, describes, compares and classifies angles MA2-17MG uses simple maps and grids to represent position and follow routes, including using compass directions MA2-18SP selects appropriate methods to collect data, and constructs, compares, interprets and evaluates data displays, including tables, picture graphs and column graphs MA2-19SP describes and compares chance events in social and experimental contexts	