Year 2 Mathematics

Achievement Standard

By the end of Year 2, students recognise increasing and decreasing number sequences involving 2s, 3s and 5s. They represent multiplication and division by grouping into sets. They associate collections of Australian coins with their value. Students identify the missing element in a number sequence. Students recognise the features of three-dimensional objects. They interpret simple maps of familiar locations. They explain the effects of one-step transformations. Students make sense of collected information.

Students count to and from 1000. They perform simple addition and subtraction calculations using a range of strategies. They divide collections and shapes into halves, quarters and eighths. Students order shapes and objects using informal units. They tell time to the quarter-hour and use a calendar to identify the date and the months included in seasons. They draw two-dimensional shapes. They describe outcomes for everyday events. Students collect, organise and represent data to make simple inferences.

Assessable Elements

An overall level of achievement in this subject is determined by the teacher's on-balance judgment of the evidence presented in students' summative assessment across the following strands:

- **Number and Algebra**
  Number and place value; Fractions and decimals; Money and financial mathematics; Patterns and algebra.

- **Measurement and Geography**
  Using units of measurement; Shape; Geometric reasoning; Location and transformation.

- **Statistics and probability**
  Chance; Data representation and interpretation.

Delivery (mode, time requirements, lessons)

Students have access to scheduled lessons each week. Lessons are delivered via our Learning Management System. Students are also expected to undertake independent study to complete tasks and assessment in accordance with the Work Rate Calendar.

Student Requirements

Computer, internet access, email, printer, scanner, headset with microphone, stationery, resource list and SRS list.

Year 2 Mathematics (Semester 1)

Units, Learning Experiences and Summative Assessment

Semester 1

Term 1

Unit 1
Number and place value
Count collections in groups of ten, represent two-digit numbers, read and write two-digit number representations, partition two-digit numbers, use the twos, fives and tens counting sequence, investigate twos, fives and tens number sequences, represent addition and subtraction, use part– part–whole relationships to solve problems, connect part–part–whole understanding to number facts, recall addition number facts, add strings of single-digit numbers, add two-digit numbers, represent multiplication and division, solve simple multiplication and division problems.
Using units of measurement
Order days of the week and months of the year, use calendars to record and plan significant events, connect seasons to the months of the year, compare lengths using direct comparison, compare lengths using indirect comparison, measure and compare lengths using non-standard units.
Chance
Identify everyday events that involve chance, describe chance outcomes, describe events as likely, unlikely, certain, impossible.
Data representation and interpretation
Collect simple data, record data in lists and tables, display data in a picture graph, describe outcomes of data investigations.

Summative Assessment:
- **Counting and calculating to and from 1000 -** Students count to and from 1000 and perform addition and subtraction problems using a range of strategies.
- **Collecting and representing data -** Students collect, organise and represent data to make simple inferences.
- **Investigating outcomes of daily events -** Students use simple strategies to reason and solve a chance inquiry question.

Term 2

Unit 2
Number and place value
Recall addition and subtraction number facts, represent two-digit numbers, partition two-digit numbers into place value parts, represent addition situations, describe part–part–whole relationships, add and subtract single- and two-digit numbers, solve addition and subtraction problems, represent multiplication, represent division, solve simple grouping and sharing problems.
Fractions and decimals
Represent halves, quarters and eighths of shapes, describe the connection between halves, quarters and eighths, solve simple number problems involving halves, quarters and eighths.
Money and financial mathematics
Describe the features of Australian coins, count coin collections, identify equivalent combinations, identify $5 and $10 notes, count small collections of coins and notes.
Patterns and algebra
Identify the threes counting sequence, describe number patterns, identify missing elements in counting patterns, solve simple number pattern problems.
Using units of measurement
Identify the number of days in each month, relate months to seasons, tell time to the quarter hour, compare and order area of shapes and surfaces, cover surfaces to represent area, measure area with informal units.
Shape
Recognise and name familiar two-dimensional shapes, describe the features of two-dimensional shapes, draw two-dimensional shapes and describe the features of familiar three-dimensional objects.
Location and transformation
Interpret simple maps of familiar locations, describe 'bird's-eye view', use appropriate language to describe locations, use simple maps to identify locations of interest.

Summative Assessment:
- **Identifying number patterns and telling time to the quarter-hour -** Students describe number patterns, identify missing elements and tell time to the quarter-hour.
- **Recognising the value of money and performing simple addition and subtraction calculations -** Students associate collections of Australian notes and coins with their values. Students solve simple addition and subtraction problems using a range of strategies.
- **Investigating simple maps of familiar locations -** Students use simple strategies to reason and solve a location inquiry question.

Year 2 Mathematics (Semester 2)

		Units, Learning Experiences and Summative Assessment
Semester 2	**Term 3**	**Unit 3** **Number and place value** Count to and from 1 000, represent three-digit numbers, compare and order three-digit numbers, partition three- digit numbers, read and write three-digit numbers, recall addition number facts, identify related addition and subtraction number facts, add and subtract with two-digit numbers, represent multiplication and division, use multiplication to solve problems, count large collections. **Fractions** Divide shapes and collections into halves, quarters and eighths, solve simple fraction problems. **Location and transformation** Describe the effect of one-step transformations, including turns, flips and slides, identify turns, flips and slides in real-world situations. **Money and financial mathematics** Count collections of coins and notes, make and compare money amounts, read and write money amounts. **Using units of measurement** Compare and order objects, measure length, area and capacity using informal units, identify purposes for calendars and explore seasons and calendars.
		Summative Assessment: • **Ordering shapes and objects using informal units -** Students measure, compare and order several objects using uniform informal units. • **Counting, multiplying and dividing -** Students count, model and represent numbers to and from 1 000 and represent multiplication and division by grouping into sets. Students divide collections and shapes into halves, quarter and eighths and solve simple problems. • **Using a calendar to identify dates, months and seasons -** Students use a calendar to identify dates and the months included in seasons. • **Investigating numbers to 1000 -** Students use simple strategies to reason and solve number inquiry questions.
	Term 4	**Unit 4** **Number and place value** Recall addition and subtraction number facts, use the inverse relationship, identify compatible numbers, add single-digit and two-digit numbers, add three-digit numbers and subtract two-digit numbers, identify related addition and subtraction facts, use place value to solve addition and subtraction problems. **Fractions and decimals** Identify halves, quarter and eighths of shapes and collections. **Patterns and algebra** Describe number patterns, investigate addition pattern sequences. **Using units of measurement** Directly compare mass of objects, use informal units to measure mass, length, area and capacity of objects and shapes, compare and order objects and shapes based on a single attribute, tell time to the quarter-hour. **Shape** Draw and describe two-dimensional shapes, describe the features of three-dimensional objects. **Location and transformation** Identify half- and quarter-turns, represent flips and slides, interpret simple maps. **Chance** Predict the likelihood of an event based on data. **Data representation and interpretation** Use data to answer questions, represent data.
		Summative Assessment: • **Explaining transformations -** Students explain the effects of one-step transformations. • **Recognising two-dimensional shapes and three-dimensional objects -** Students draw two-dimensional shapes and recognise the features of three-dimensional objects. • **Representing data and chance -** Students describe outcomes for everyday events, collect, organise, represent and make sense of collected data and make simple inferences. • **Investigating shapes and location -** Students use simple strategies to reason and solve number and measurement inquiry questions.

Disclaimer All of the above information is accurate at the time of development.