Year 3 Mathematics

Achievement Standard

By the end of Year 3, students order and represent natural numbers beyond 10 000. They partition, rearrange and regroup two- and three-digit numbers in different ways to assist in calculations. Students extend and use single-digit addition and related subtraction facts and apply additive strategies to model and solve problems involving two- and three-digit numbers. They use mathematical modelling to solve practical problems involving single-digit multiplication and division, recalling multiplication facts for twos, threes, fours, fives and tens, and using a range of strategies. Students represent unit fractions and their multiples in different ways. They make estimates and determine the reasonableness of financial and other calculations. Students find unknown values in number sentences involving addition and subtraction. They create algorithms to investigate numbers and explore simple patterns.

Students use familiar metric units when estimating, comparing and measuring the attributes of objects and events. They identify angles as measures of turn and compare them to right angles. Students estimate and compare measures of duration using formal units of time. They represent money values in different ways. Students make, compare and classify objects using key features. They interpret and create two-dimensional representations of familiar environments.

Students conduct guided statistical investigations involving categorical and discrete numerical data and interpret their results in terms of the context. They record, represent and compare data they have collected. Students use practical activities, observation or experiment to identify and describe outcomes and the likelihood of everyday events explaining reasoning. They conduct repeated chance experiments and discuss variation in results.

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:

- **Fluency**
- **Problem Solving**
- **Reasoning**
- **Understanding**

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 3 Mathematics

Units, Learning Experiences and Summative Assessment		
Semester 1	Term 1	**Unit 1** Students will focus on addition and subtraction using partitioning, place value to the thousands, and explore multiplication concepts. They will also investigate number sentences, word problems, and predicting outcomes with spinners, while reviewing strategies for solving mathematical problems such as using tables, charts, and breaking down complex problems.
		Summative Assessment: • Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.
	Term 2	**Unit 2** Students focus on a mix of measurement, time, addition, subtraction, and data representation. Students will explore time, using both the hour and past the hour, and engage in investigations around measuring different units like metres, kilograms, and litres. Data analysis is emphasized through activities like interpreting graphs, comparing tables and graphs, and understanding place value to the ten thousands.
		Summative Assessment: • Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.
Semester 2	Term 3	**Unit 3** **Students will focus on building fluency with number patterns, multiplication, division, and estimation strategies. Students will delve into multiplication facts, place value beyond ten thousands, rounding, and equivalency in money values. They will also apply problem-solving strategies to multiplication and division, emphasizing inverse operations and real-world money applications.**
		Summative Assessment: • Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.
	Term 4	**Unit 4** students will explore a variety of mathematical concepts including division, fractions, geometric shapes, time, and number comparison. The key focus is on learning about the properties of 3D shapes, fractions as part of a group or whole, and solving problems related to time and number systems.
		Summative Assessment: • Students will demonstrate their knowledge and understanding through a combination of hands-on investigations and tests throughout the term.

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