

# Mathematics Class 1

**Book 1C**

Version 2019-1



## Key Learning Objectives by Week

		<b>Chapter 1 Positive Real Numbers</b>	<b>Textbook</b>
Week 1	1.1	Recognise the place values of an integer  Round a number to the nearest 10, 100, 1000	Page 6-8
	1.2	Add two positive integers, using: <ul style="list-style-type: none"><li>• column method</li><li>• laws of addition</li><li>• mental addition</li></ul>	Page 9-11
	1.3	Subtract two positive integers, using: <ul style="list-style-type: none"><li>• column method</li><li>• mental subtraction</li><li>• relate addition and subtraction</li></ul>	Page 12-15
Week 2	1.4	Multiply two positive integers, using <ul style="list-style-type: none"><li>• grid method and column method</li><li>• laws of multiplication</li><li>• mental multiplication</li></ul>	Page 16-19
Week 3	1.5	Divide two positive integers, using: <ul style="list-style-type: none"><li>• long division and short division methods</li><li>• mental division</li><li>• relate multiplication and division</li></ul>	Page 20-23
Week 4	1.6	Understand the meaning of square, cube, square root and cube root of a number  Understand index notation	Page 24-27
	1.7	Apply the order of operations in calculations  Use calculators to apply operations	Page 28-30
Week 5	1.8	Factors and Multiples	Page 31-33
		<b>Chapter 2 Negative Integers</b>	
Week 5 – 6	2.1	Recognise the use of negative numbers in the real world  Represent numbers on a number line	Page 38-41
	2.2	Identify integers and perform addition and subtraction on them	Page 42-48
Week 6–7	2.3	Identify integers and perform multiplication and division on them  Combine operations of integers	Page 49-54

**Term 1 Test \*\*\* No calculator \*\*\***

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## Key Learning Objectives by Week

### **Chapter 3 Introduction to Algebra**

### **Textbook**

Week 9 – 10	3.1	Use letters to represent numbers	Page 60-66
	3.2	Substitute integers into simple expressions and formulae	Page 66-71
	3.3	Write simple expressions and formulae	Page 71-74
Week 11	3.4	Simplify expressions by collecting like terms	Page 74-79
	3.5	Add and subtract linear expressions	Page 79-83
	3.6	Expand a single bracket	Page 84-86

### **Chapter 4 Simple Equations**

### **Textbook**

Week 12	4.1	The concept of equations and balancing in the real world	Page 92-99
		Solve simple equations in one variable	
Week 13	4.2	Solve simple equations involving brackets	Page 99-101
	4.3	Write simple equations in one variable to solve problems	Page 101-105

### **Chapter 10 Perimeter and Area of Triangles**

### **Textbook**

Week 14	10.1	Find the perimeter and area of a triangle	Page 269-275
	10.4	Find a length given the perimeter or area of a shape	Page 283-287
		Solve problems involving perimeters and areas of composite plane figures formed by rectangles, squares and triangles	



**Scheme of Work**

**Term 2 Test**

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## Key Learning Objectives by Week

	<b>Chapter 5 Fractions</b>	<b>Textbook</b>
Week 16-18	5.1 Use fraction notation and express one quantity as a fraction of another  Convert between improper fractions and mixed numbers	Page 112-115
	5.2 Identify equivalent fractions, simplify fractions and compare fractions	Page 116-121
	5.3 Addition and subtraction of fractions and mixed numbers Apply fractions in practical situations	Page 121-125
	5.4 Calculate fractions of quantities Multiplication of Fractions Apply fractions in practical situations	Page 126-129
	5.5 Find the reciprocal of a number Division of Fractions and Mixed Numbers	Page 130-133
	5.6 Identify fractions as rational number  Using a Calculator	Page 134-137
	<b>Chapter 8 Angles, Parallel Lines and Triangles</b>	<b>Textbook</b>
Week 18-21	8.1 Describe a point, a line, a line segment, a ray and a plane	Page 202-205
	8.2 Construct lines, line segments and angles Recognise the properties of vertically opposite angles, angles on a straight line and angles at a point	Page 205-213
	8.3 Recognise the properties of angles formed by parallel lines and transversals Find unknown marked angles in a diagram using the above properties	Page 214-220
	8.4 Classify triangles based on their sides and angles Understand the general properties of sides and angles of a triangle Construct triangles where three sides are given	Page 221-231
	<b>Chapter 10 Perimeter and Area of Circles</b>	<b>Textbook</b>
Week 22	10.2 Circumference of a circle	Page 275-279
	10.3 Area of a circle	Page 279-282
	10.4 Solve problems involving perimeters and areas of composite plane figures formed by rectangles, squares, triangles and circles	Page 283-290

**Term 3 Test**

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## Key Learning Objectives by Week

	<b>Chapter 6 Decimals</b>	<b>Textbook</b>
Week 24-25	6.1 Place Values, Ordering and Rounding Decimal Numbers <ul style="list-style-type: none"><li>• Interpret decimals and write decimals in order of size</li><li>• Round decimals to the nearest integer</li></ul>	Page 140-144
	6.2 Addition and Subtraction of Decimals	Page 145-147
	6.3 Multiplication of Decimals	Page 147-150
	6.4 Division of a Decimal by a Whole Number	Page 150-152
	6.5 Mental Calculation and Conversion between Units	Page 153-157
	6.6 Division of a Decimal by a Decimal	Page 157-159
	6.7 Rational Numbers and Real Numbers	Page 160-163
Week 25-26	<b>Chapter 7 Percentages</b>	<b>Textbook</b>
	7.1 Meaning of Percentages notation – conversion % $\Leftrightarrow$ fractions $\Leftrightarrow$ decimals	Page 169-174
	7.2 Percentage of a quantity Expressing a quantity as a % Calculating the % of a quantity	Page 174-179
	7.3 Reducing and increasing a quantity by a % Use of decimal multiplier VAT problems	Page 180-185
*** Week 27-28	<b>Mathematical Modelling and Problem Solving ... extra notes</b>	
*** Time permitting	<b>Chapter 9 Transformations</b>	<b>Textbook</b>
	9.1 Transformations	Page 238-248
	9.2 Symmetry	Page 249-255
	9.3 Congruence	Page 255-263

**FINAL EXAM**

**PAPER 1 NO CALCULATOR, PAPER 2 CALCULATOR REQUIRED**