Mathematics Curriculum Area Plan

Incorporating Number and Algebra

Sample Program – Year Prep to Year 6

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Approximate hours of teaching** | **3** | **6** | **9** | **12** | **15** | **18** | **21** | **24** | **27** | **30** | **33** | **36** | **39** |
| **Prep** | **Semester 1** | 0.1.1: Understanding Language and Process of Counting | | 0.1.4 Teen Numbers | 0.1.6 Connect Numbers to Quantities of Subitising | 0.1.8 Patterning-Recognising, Continuing, Creating | | 0.1.10 Adding and Sharing Groups | | 0.1.13 Make, Name and Order Numbers Beyond 20 |  |  |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | Sub-strand: Number and Place Value | Sub-strand: Patterns and Algebra | | Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value |
| **Semester 2** | 0.2.1 Patterns with Numbers | | 0.2.4 Sharing Objects into Fair Groups | 0.2.6 Counting Forwards and Backwards | | | | 0.2.7 Ordinal Numbers | 0.2.9 Informal Skip Counting | | 0.2.10 Revisiting Language of Position and Movement | 0.2.11 Strategies for Adding | |
| Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | Sub-strand: Number and Place Value | | | | Sub-strand: Number and Place Value | Sub-strand: Number and Place Value | | Sub-strand: Number and place value | Sub-strand: Number and Place Value | |
| **Year 1** | **Semester 1** | 1.1.1 Patterns in the Number System | | | 1.1.4 Number -One of These is Ten of Those | | 1.1.5 What is Money? | 1.1.7 Addition and Subtraction - Strategies | | | 1.1.8 Commutative Law and Doubles and Near Doubles | 1.1.11 Solving Simple Addition and Subtraction Problems | |  |
| Sub-strand: Number and Place Value | | | Sub-strand: Number and Place Value | | Sub-strand: Fractions and Decimals | Sub-strand: Number and Place Value | | | Sub-strand: Number and Place Value | Sub-strand: Number and Place Value | |  |
| **Semester 2** | 1.2.1 Number Sequences and Skip Counting | | | 1.2.4 Fractions - What is half? | 1.2.6 Number - Grouping and Sharing | | 1.2.8 Number - Revisiting Place Value and Counting | | 1.2.9 Money | 1.2.10 Number - Revise Addition and Subtraction | | 1.2.11 Skip Counting and Simple Multiplication | |
| Sub-strand: Number and Place Value | | | Sub-strand: Fractions and Decimals | Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | | Sub-strand: Money and Financial Mathematics | Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | |
| **Year 2** | **Semester 1** | 2.1.1 Skip Counting and Number Sequences | | 2.1.4 Place Value to 1000 | | | 2.1.5 Counting and Making Money Amounts | | 2.1.6 Strategies for Addition and Subtraction | | | |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | | | Sub-strand: Money and Financial Mathematics | | Sub-strand: Number and Place Value | | | |
| **Semester 2** | 2.2.1 Recognising and Representing Multiplication and Division | | 2.2.4 Halves, Quarters, and Eighths of Wholes and Groups | | 2.2.6 Finding the Missing Element |  |  |  |  |  |  |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Fractions and Decimals | | Sub-strand: Patterns and Algebra |
| **Year 3** | **Semester 1** | 3.1.1 Odd and Even Numbers | | 3.1.4 Counting with Fractions | | 3.1.6 Number Patterns | 3.1.7 Addition and Subtraction | | 3.1.10 Money | 3.1.11 Whole Numbers - to  10 000 | |  |  |  |
| Sub-strand: Number and Place value | | Sub-strand: Fractions and Decimals | | Sub-strand: Patterns and Algebra | Sub-strand: Number and Place Value | | Sub-strand: Money and Financial Mathematics | Sub-strand: Number and Place Value | |
| **Semester 2** | 3.2.1 Multiplication / Division | | 3.2.4 Fractions and Decimals | | 3.2.6 Number Sentences | | 3.2.7 Whole Numbers - Multiplication | 3.2.10 Fractions; Multiples to a Whole Number | | 3.2.11 Whole Numbers and Place Value – to   10 000 | |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Fractions and Decimals | | Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | Sub-strand: Fractions and Decimals | | Sub-strand: Number and Place Value | |
| **Year 4** | **Semester 1** | 4.1.1 Whole Numbers Place Value | 4.1.4 Number and Algebra -Simple Fractions and Decimals - Up to One | | 4.1.6 Number Patterns | 4.1.7 Addition and Subtraction | | 4.1.10 Money | 4.1.11 Odd and Even Numbers | |  |  |  |  |
| Sub-strand: Number and Place Value | Sub-strand: Fractions and Decimals | | Sub-strand: Patterns and Algebra | Sub-strand: Patterns and Algebra | | Sub-strand: Money and Financial Mathematics | Sub-strand: Number and Place Value | |
| **Semester 2** | 4.2.1 Multiplication and Division | | 4.2.4 Simple Fractions and Decimals - One and Beyond | 4.2.6 Number Sentences | | 4.2.7 Whole Numbers - Multiplication and Area | 4.2.10 Fractions and Decimals to Hundredths | |  |  |  |  |  |
| Sub-strand: Patterns and Algebra | | Sub-strand: Fractions and Decimals | Sub-strand: Patterns and Algebra | | Sub-strand: Using Units of Measure | Sub-strand: Fractions and Decimals | |
| **Year 5** | **Semester 1** | 5.1.1 Place Value to Hundreds of Thousands | | 5.1.2 Developing a Place Value Understanding of Decimal Numbers | | 5.1.3 Operations with Whole Numbers and Decimal Numbers | | | | 5.1.7 Describing, Creating and Continuing Patterns | |  |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Fractions and Decimals | | Sub-strand: Number and Place Value | | | | Sub-strand: Patterns and Algebra | |
| **Semester 2** | 5.2.1 Comparing and Ordering Fractions and Decimals | | | 5.2.2 Operations - Multi-Digit Multiplication and Division | | | 5.2.3 Pattern and Algebra - Equality and Equivalence | | 5.2.7 Financial Plans and Budgets | |  |  |  |
| Sub-strand: Fractions and Decimals | | | Sub-strand: Number and Place Value | | | Sub-strand: Patterns and Algebra | | Sub-strand: Money and financial mathematics | |
| **Year 6** | **Semester 1** | 6.1.1 Types of Numbers (prime, composite, square, triangular and negative) | | 6.1.2 Operating with Decimal Numbers | | 6.1.3 Operations - The Four Operations | | | | 6.1.7 Pattern and Algebra - Forming Generalisations | |  |  |  |
| Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | | Sub-strand: Number and Operations | | | | Sub-strand: Patterns and Algebra | |
| **Semester 2** | 6.2.1 Operating with Fractions | | | | 6.2.2 Connecting Fractions, Decimals and Percent | | 6.2.3 Pattern and Algebra - Order of Operations | | 6.2.7 Calculating Percentage Discounts | |  |  |  |
| Sub-strand: Fractions and Decimals; Patterns and Algebra | | | | Sub-strand: Fractions and Decimals | | Sub-strand: Patterns and Algebra | | Sub-strand: Money and Financial Mathematics | |
|  | **Approximate hours of teaching** | **3** | **6** | **9** | **12** | **15** | **18** | **21** | **24** | **27** | **30** | **33** | **36** | **39** |

|  |  |
| --- | --- |
| **Key** | **Number and Algebra Strand** |