Mathematics Sample Program

Curriculum Area Plan

Primary Levels P-6

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| Number and Algebra Sub-strands | **Levels** |
| Number and place value (F–8) | F – 8 |
| Fractions and decimals (1–6) | 1 – 6 |
| Real numbers (7–10) | 7 – 10 |
| Money and financial mathematics (1–10) | 1 – 10 |
| Patterns and algebra (F–10) | F – 10 |
| Linear and non-linear relationships (7–10) | 7 – 10 |

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| Measurement and Geometry Sub-strands | **Levels** |
| Using units of measurement (F–10) | F- 10 |
| Shape (F–7) | F – 7 |
| Geometric reasoning (3–10) | 3 – 10 |
| Location and transformation (F–7) | F – 7 |
| Pythagoras and trigonometry (9–10) | 9 – 10 |

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| Statistics and Probability Sub-strands | **Levels** |
| Chance (1–10) | 1 – 10 |
| Data representation and interpretation (F–10) | F – 10 |

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|  | Week | 1 | 2 | 3 | 4 | | 5 | | | 6 | 7 | 8 | 9 | | 10 | 11 | | 12 | | 13 | 14 | | 15 | | 16 | 17 | | 18 |
| Prep | Semester 1 | **0.1.1: Understanding Language and Process of Counting** | | **0.1.2: Direct and Indirect Comparisons of Length, Mass and Capacity** | | | **0.1.3 Collecting Data** | | | **0.1.4 Teen Numbers** | **0.1.5 Features of 2D Shapes** | **0.1.6 Connect Numbers to Quantities of Subitising** | **0.1.7 Days of the Week and Sequencing Daily Events**  ***No week 10*** | | | **0.1.8 Patterning-Recognising, Continuing, Creating** | | | | **0.1.9 Language of Position and Movement** | **0.1.10 Adding and Sharing Groups** | | | | **0.1.11 Describe, Sort and Name 3D Shapes** | **0.1.12 Time to the Hour and Duration of Time** | | **0.1.13 Make, Name and Order Numbers Beyond 20** |
| Sub-strand: Number and Place Value | | Sub-strand: Using Units of Measurement | | | Sub-strand: Data and Representation | | | Sub-strand: Number and Place Value | Sub-strand: Shape | Sub-strand: Number and Place Value | Sub-strand: Using Units of Measurement | | | Sub-strand: Patterns and Algebra | | | | Sub-strand: Location and Transformation | Sub-strand: Number and Place Value | | | | Sub-strand: Shape | Sub-strand: Using Units of Measurement | | Sub-strand: Number and Place Value |
| Semester 2 | **0.2.1 Patterns with Numbers** | | **0.2.2: Revisiting Measurement- Comparisons of Lengths, Masses and Capacities** | | | **0.2.3 Interpreting Data** | | | **0.2.4 Sharing Objects into Fair Groups** | **0.2.5 Comparing Features of 2D and 3D Shapes** | **0.2.6 Counting Forwards and Backwards** | | | | | | **0.2.7 Ordinal Numbers** | | **0.2.8 Revisiting Time to the Hour and Duration of Time** | **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: Using Units of Measurement | | | Sub-strand: Data Representation and Interpretation | | | Sub-strand: Number and Place Value | Sub-strand: Shape | Sub-strand: Number and Place Value | | | | | | Sub-strand: Number and Place Value | | Sub-strand: Using Units of Measurement | 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** | | | **1.1.2 Measuring and Comparing Length Informally** | | **1.1.3 Represent Data and Use to Predict Future Outcomes** | | | **1.1.4 Number -One of These is Ten of Those** | | **1.1.5 What is Money?** | **1.1.6 Time - Half Past and Duration (Days, Weeks)** | | **1.1.7 Addition and Subtraction - Strategies** | | | | | **1.1.8 Commutative Law and Doubles and Near Doubles** | **1.1.9 Location - Giving and Following Directions** | | **1.1.10 Recognise and Classify 2D Shapes** | | **1.1.11 Solving Simple Addition and Subtraction Problems** | | | **1.1.12 Will it Happen** |
| Sub-strand: Number and Place Value | | | Sub-strand: Using Units of Measurement | | Sub-strand: Data and Representation | | | Sub-strand: Number and Place Value | | Sub-strand: Fractions and Decimals | Sub-strand: Using Units of Measurement | | Sub-strand: Number and Place Value | | | | | Sub-strand: Number and Place Value | Sub-strand: Location and Transformation | | Sub-strand: Shape | | Sub-strand: Number and Place Value | | | Sub-strand: Data Representation and Interpretation |
| Semester 2 | **1.2.1 Number Sequences and Skip Counting** | | | **1.2.2 Measuring and Comparing Capacity Informally** | | **1.2.3 Represent Data and Developing Questions** | | | **1.2.4 Fractions - What is half?** | **1.2.5 Recognise and Classify 3D Shapes** | **1.2.6 Number - Grouping and Sharing** | | | **1.2.7 Time - Half Past and Duration (Days, Weeks, Minutes and Hours)** | | | **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: Using Units of Measurement | | Sub-strand: Data Representation and Interpretation | | | Sub-strand: Fractions and Decimals | Sub-strand: Shape | Sub-strand: Number and Place Value | | | Sub-strand: Using Units of Measurement | | | 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** | | **2.1.2 Measurement - Comparing Length, Area** | | | | | | **2.1.3 Language of Chance** | | **2.1.4 Place Value to 1000** | | | | **2.1.5 Counting and Making Money Amounts** | | | | **2.1.6 Strategies for Addition and Subtraction** | | | | | | **2.1.7 Clock times, Months, Seasons and the Calendar** | | |
| Sub-strand: Number and Place Value | | Sub-strand: Using Units of Measurement | | | | | | Sub-strand: Chance | | Sub-strand: Number and Place Value | | | | Sub-strand: Money and Financial Mathematics | | | | Sub-strand: Number and Place Value | | | | | | Sub-strand: Using Units of Measurement | | |
| Semester 2 | **2.2.1 Recognising and Representing Multiplication and Division** | | | **2.2.2 Measuring Mass, Volume and Capacity** | | | | | | **2.2.3 Asking Questions, and Collecting, Showing and Interpreting Data** | | **2.2.4 Halves, Quarters, and Eighths of Wholes and Groups** | | | **2.2.5 Describing 2D Shapes and Transformations** | | | | | **2.2.6 Finding the Missing Element** | | **2.2.7 Mapping and Giving Directions** | | | **2.2.8 Describing 3D Shapes** | | |
| Sub-strand: Number and Place Value | | | Sub-strand: Using Units of Measurement | | | | | | Sub-strand: Data Representation and Interpretation | | Sub-strand: Fractions and Decimals | | | Sub-strand: Shape | | | | | Sub-strand: Patterns and Algebra | | Sub-strand: Location and Transformation | | | Sub-strand: Shape | | |
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|  | Key | | | | |  | | Number and Algebra Strand | | | | |  |  | | Measurement and Geometry Strand | | | | | |  | Statistics and Probability Strand | | | | | |

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|  | Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

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| Year 3 | Semester 1 | **3.1.1 Odd and Even Numbers** | | **3.1.2 3D Shapes** | | | **3.1.3 Measurement - Length** | | **3.1.4 Counting with Fractions** | | **3.1.5 Data Representation and Interpretation** | **3.1.6 Number Patterns** | | **3.1.7 Addition and Subtraction** | | **3.1.8 Space - Shape and Symmetry** | | | **3.1.9 Geometric Reasoning - Angles** | | | | **3.1.10 Money** | **3.1.11 Whole Numbers - to 10 000** | |
| Sub-strand: Number and place value | | Sub-strands: Shape | | | Sub-strand: Using Units of Measurement | | Sub-strand: Fractions and Decimals | | Sub-strand: Data Representation and Interpretation | Sub-strand: Patterns and Algebra | | Sub-strand: Number and Place Value | | Sub-strand: Location and Transformation | | | Sub-strand: Geometric Reasoning | | | | Sub-strand: Money and Financial Mathematics | Sub-strand: Number and Place Value | |
| Semester 2 | **3.2.1 Multiplication / Division** | | **3.2.2 Solids** | | | **3.2.3 Volume Capacity Mass** | | **3.2.4 Fractions and Decimals** | | **3.2.5 Chance and Probability** | | | **3.2.6 Number Sentences** | | **3.2.7 Whole Numbers - Multiplication** | | **3.2.8 Space, Maps, Scales and Networks** | **3.2.9 Time and Temperature** | | **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-strands: Shape | | | Sub-strand: Using Units of Measurements | | Sub-strand: Fractions and Decimals | | Sub-strand: Chance | | | Sub-strand: Number and Place Value | | Sub-strand: Number and Place Value | | Sub-strand: Location and Transformation | Sub-strand: Using Units of Measurement | | Sub-strand: Fractions and Decimals | | | Sub-strand: Number and Place Value | |
| Year 4 | Semester 1 | **4.1.1 Whole Numbers Place Value** | **4.1.2 2D Shapes and Area** | | **4.1.3 Measurement - Length** | | | | **4.1.4 Number and Algebra -Simple Fractions and Decimals - Up to One** | | **4.1.5 Data Representation and Interpretation** | **4.1.6 Number Patterns** | | **4.1.7 Addition and Subtraction** | | **4.1.8 Space - Shape and Symmetry** | | | **4.1.9 Geometric Reasoning - Angles** | | | **4.1.10 Money** | | **4.1.11 Odd and Even Numbers** | |
| Sub-strand: Number and Place Value | Sub-strand: Shape | | Sub-strand: Using Units of Measurement | | | | Sub-strand: Fractions and Decimals | | Sub-strand: Data Representation and Interpretation | Sub-strand: Patterns and Algebra | | Sub-strand: Patterns and Algebra | | Sub-strand: Location and Transformation | | | Sub-strand: Geometric Reasoning | | | Sub-strand: Money and Financial Mathematics | | Sub-strand: Number and Place Value | |
| Semester 2 | **4.2.1 Multiplication and Division** | | **4.2.2 Solids** | | | **4.2.3 Volume Capacity Mass** | | **4.2.4 Simple Fractions and Decimals - One and Beyond** | **4.2.5 Chance and Probability** | | | | **4.2.6 Number Sentences** | | **4.2.7 Whole Numbers - Multiplication and Area** | | **4.2.8 Space, Maps, Scales and Networks** | | | **4.2.9 Time** | | | **4.2.10 Fractions and Decimals to Hundredths** | |
| Sub-strand: Patterns and Algebra | | Sub-strand: Shape | | | Sub-strand: Using Units of Measurement | | Sub-strand: Fractions and Decimals | Sub-strand: Chance | | | | Sub-strand: Patterns and Algebra | | Sub-strand: Using Units of Measure | | Sub-strand: Location and Transformation | | | Sub-strand: Using Units of Measure | | | Sub-strand: Fractions and Decimals | |
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|  | Key | | | | |  | | Number and Algebra Strand | | | |  |  | | Measurement and Geometry Strand | | | | |  | Statistics and Probability Strand | | | | |

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|  | Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

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| 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** | | | | | | **5.1.4 Shape - 2D and 3D Shape, Properties and Angles** | | **5.1.5 Measurement - Time, Length, Area and Perimeter** | | | | | **5.1.6 Representing and Interpreting Data** | | **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: Shape; Geometric Reasoning | | Sub-strand: Using Units of Measurement | | | | | Sub-strand: Data Representation and Interpretation | | 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** | | | **5.2.4 Shape - Location and Transformation** | | **5.2.5 Measurement - Volume and Capacity and Mass** | | | **5.2.6 Qualifying Chance as a Fraction** | | | | **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: Location and Transformation | | Sub-strand: Using Units of Measurement | | | Sub-strand: Chance | | | | 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** | | | | | **6.1.4 Shape - Prisms, Pyramids and Angles** | | **6.1.5 Measurement - Time, Length, Area and Perimeter, connecting to Decimal Numbers and Converting between Units of Measure** | | | | | **6.1.6 Comparing Representations of Data** | | **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: Geometric Reasoning | | Sub-strand: Using Units of Measurement, Geometric Reasoning | | | | | Sub-strand: Data Representation and Interpretation | | 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** | | **6.2.4 Shape - Transformation and Cartesian Coordinates** | | **6.2.5 Measurement - Converting between Metric Units for Volume and Capacity and Mass** | | | | **6.2.6 Quantifying Chance as a Fraction, Decimal and Percent** | | | **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: Location and Transformation | | Sub-strand: Using Units of Measurement, Geometric Reasoning | | | | Sub-strand: Chance | | | Sub-strand: Money and financial mathematics | |
|  | Week | 1 | 2 | 3 | 4 | | 5 | 6 | | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 14 | 15 | 16 | 17 | 18 |
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|  | Key | | | |  | | Number and Algebra Strand | | | | |  |  | Measurement and Geometry Strand | | | |  | Statistics and Probability Strand | | | |