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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| 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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| 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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