ORIGO STEPPING STONES

PROGRAM CONTENT

YEAR 4

MODULE 1

1.1	Writing Four-Digit Number Names and Numerals
1.2	Revising Four-Digit Numbers
1.3	Analysing Four-Digit Numbers
1.4	Building a Picture of 10 000
1.5	Reading and Writing Five-Digit Numbers
1.6	Analysing Five-Digit Numbers
1.7	Comparing and Ordering Four- and Five-Digit Numbers
1.8	Rounding Five-Digit Numbers
1.9	Reinforcing Rounding with Five-Digit Numbers
1.10	Introducing the Ones Multiplication Facts
1.11	Introducing the Zeros Multiplication Facts
1.12	Reinforcing the Ones and Zeros Multiplication Facts

MODULE 2

2.1	Revising Addition Strategies
2.2	Revising Subtraction Strategies
2.3	Estimating with Addition and Subtraction
2.4	Revising Informal Methods to Add Three-Digit Numbers
2.5	Introducing the Formal Addition Algorithm
2.6	Working with the Formal Addition Algorithm (Composing Tens)
2.7	Working with the Formal Addition Algorithm (Composing Hundreds)
2.8	Using the Formal Algorithm to Add Three-Digit Numbers
2.9	Solving Problems Involving Addition
2.10	Revising Analog and Digital Times
2.11	Introducing am and pm Notation
2.12	Revising Time Measurement

MODULE 3

3.1	Introducing the Fours Multiplication Facts
3.2	Reinforcing the Fours Multiplication Facts
3.3	Introducing the Eights Multiplication Facts
3.4	Reinforcing the Eights Multiplication Facts
3.5	Exporing Patterns with the Eights Multiplication Facts
3.6	Solving Word Problems Involving Multiplication
3.7	Revising the Relationship Between Multiplication and Division
3.8	Solving Word Problems Involving Division
3.9	Creating and Conducting a Survey to Collect Data
3.10	Exploring Column Graphs
3.11	Introducing Many-to-One Picture Graphs
3.12	Working with Picture Graphs

MODULE 4

4.1	Recording Subtraction of Two- and Three-Digit Numbers
4.2	Exploring Written Methods for Subtraction
4.3	Revising Informal Algorithms for Subtraction)
4.4	Introducing the Formal Subtraction Algorithm
4.5	Working with the Formal Subtraction Algorithm (Decomposing Tens in Two-Digit Numbers
4.6	Working with the Formal Subtraction Algorithm (Decomposing Tens in Three-Digit Numbers)
4.7	Working with the Formal Subtraction Algorithm (Decomposing Hundreds)
4.8	Exploring Subtraction Involving Zero
4.9	Consolidating Subtraction Methods
4.10	Reading Scales and Comparing Mass
4.11	Building a Picture of Grams
4.12	Solving Problems Involving Grams and Kilograms

MODULE 5

5.1	Introducing and Reinforcing the Ones and Zeros Division Facts
5.2	Introducing and Reinforcing Fours Division Facts
5.3	Introducing and Reinforcing the Eights Division Facts
5.4	Identifying Equivalent Fractions (Length Model)
5.5	Identifying Equivalent Fractions (Area Model)
5.6	Identifying Equivalent Fractions (Number Line Model)
5.7	Comparing Fractions (Number Line Model)
5.8	Converting Between Centimetres and Millimetres
5.9	Converting Between Metres and Centimetres
5.10	Exploring the Perimeter of Irregular Polygons
5.11	Reading Temperatures an a Scale
5.12	Working with Temperature

MODULE 6

6.1	IRevising the Formal Addition Algorithm (Composing Tens)
6.2	Using the Formal Addition Algorithm (Composing Hundreds)
6.3	Using the Formal Addition Algorithm (Regrouping in Any Place)
6.4	Using the Formal Addition Algorithm with Large Numbers
6.5	Solving Word Problems Involving Addition
6.6	Introducing the Nines Multiplication Facts
6.7	Reinforcing the Nines Multiplication Facts
6.8	Introducing and Reinforcing the Nines Division Facts
6.9	Joining 2D Shapes
6.10	Splitting 2D Shapes
6.11	Identifying Transformations
6.12	Analysing and Creating Tessellating Designs

MODULE 7

7.1	Introducing the Sixes Multiplication Facts
7.2	Reinforcing the Sixes Multiplication Facts
7.3	Consolidating Multiplication Facts with Threes and Sevens
7.4	Working with All Multiplication Facts
7.5	Introducing and Reinforcing the Sixes and Last Division Facts
7.6	Comparing Areas Using Familiar Metric Units
7.7	Using Multiplication to Calculate Area
7.8	Developing a Rule to Calculate the Area of Rectangles
7.9	Calculating Area in Square Centimetres
7.10	Interpreting and Constructing Many-to-One Picture Graphs
7.11	Comparing Column Graphs
7.12	Working with Different Data Displays

MODULE 8

8.1	Revising the Formal Subtraction Algorithm (Decomposing Tens or Hundreds)
8.2	Using the Formal Subtraction Algorithm (Decomposing Multiple Places)
8.3	Using the Formal Subtraction Algorithm with Large Numbers
8.4	Analysing Decomposition Across Places Involving Zero with Large Numbers
8.5	Consolidating the Formal Subtraction Algorithm
8.6	Describing Angles
8.7	Measuring Angles Using Informal Units
8.8	Drawing Angles of Various Sizes
8.9	Measuring Time Intervals in Minutes
8.10	Converting Between Units of Time (Hours and Minutes)
8.11	Converting Between Units of Time (Days and Weeks)
8.12	Working with Timetables and Duration

MODULE 9

9.1	Relating Multiples and Factors
9.2	Finding Pairs of Factors
9.3	Introducing the Double-and-Halve Strategy for Multiplication
9.4	Constructing Factor Trees
9.5	Using the Associative and Commutative Properties of Multiplication
9.6	Reinforcing the Associative and Commutative Properties of Multiplication
9.7	Using the Distributive Property of Multiplication
9.8	Consolidating Multiplication Strategies
9.9	Describing and Extending Number Patterns Involving Multiplication
9.10	Finding and Applying Rules in Number Patterns Involving Multiplication
9.11	Investigating the Result of Adding and Subtracting Odd and Even Numbers
9.12	Investigating the Result of Multiplying Odd and Even Numbers

MODULE 10

10.1	Exploring Equivalent Fractions with Tenths and Hundredths
10.2	Introducing Decimal Fractions
10.3	Locating and Comparing Tenths
10.4	Exploring Hundredths
10.5	Writing Hundredths as Decimal Fractions (without Teens or Zeros)
10.6	Writing Hundredths as Decimal Fractions (with Teens and Zeros)
10.7	Locating Decimal Fractions on a Number Line
10.8	Relating Common Fractions and Decimal Fractions
10.9	Revising Litres and Introducing Millilitres
10.10	Relating Millilitres and Litres
10.11	Converting Between Litres and Millilitres
10.12	Solving Problems Involving Millilitres

MODULE 11

11.1	Revising Division Models
11.2	Relating Multiplication and Division
11.3	Solving Problems Involving Multiplication and Division
11.4	Modelling Division Involving Remainders
11.5	Solving Division Problems with Remainders
11.6	Using an Inverse Strategy to Divide
11.7	Introducing a Partitioning Strategy to Divide Two-Digit Numbers
11.8	Reinforcing the Partitioning Strategy to Divide Two-Digit Numbers
11.9	Representing Prisms and Cylinders
11.10	Representing Pyramids and Cylinders
11.11	Sketching and Identifying Different Viewpoints
11.12	Using Grids to Draw 3D Objects

MODULE 12

12.1	Finding Unknown Quantities Involving Addition
12.2	Finding Unknown Quantities Involving Subtraction
12.3	Working with Equivalent Number Sentences
12.4	Solving Problems Involving Money
12.5	Calculating Change (without Rounding)
12.6	Calculating Change (with Rounding)
12.7	Introducing Compass Points on a Map
12.8	Using a Legend and Direction to Interpret a Map
12.9	Using Scale and Direction to Interpret a Map
12.10	Describing the Probability of Everyday Chance Events
12.11	Ordering the Likelihood of Chance Events
12.12	Exploring the Order of Chance Events