## Place Value

4 weeks

- Read, write, order and co the value of each digit
- Use negative numbers in to a required degree of accuracy Use negative numbers in context, and calculate intervals acro
Solve number and practical problems that involve the above

Step 1 Numbers to 1,000,000
Step 2 Numbers to $10,000,000$
Step 3 Read and write numbers to $10,000,000$
Step 4 Powers of 10
Step 5 Number line to 10,000,000
Step 6 Compare and order any integers
Step 6 Com
PS Lesson
Assessment 1: Pause \& Stretch
Step 7 Round any integer
PS Lesson
Assessment 6: Pause \& Stretch
Step 8 Negative numbers
PS Lesson
Assessment 14: Pause \& Stretch

Four Operations

## 6 weeks

- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
- Identify common factors, common multiples and prime numbers
- Multiply multi-digit numbers up to four digits by a 2 -digit whole number using the formal written method of long multiplication
- Perform mental calculations, including with mixed operations and large
number
Divide numbers up to four digits by a 2 -digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
- Divide numbers up to four digits by a 2 -digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context


## Step 1 Add and subtract integers

Step 2 Common factors
Step 3 Common multiples
Step 4 Rules of divisibility
Step 5 Primes to 100
Step 6 Square and cube numbers
Step 7 Multiply up to a 4 -digit number by a 2 -digit number
Step 8 Solve problems with multiplication
Step 9 Short division
Step 10 Division using factors
Step 11 Introduction to long division
Step 12 Long division with remainders
Step 13 Solve problems with division
Step 14 Solve multi-step problems
Step 15 Order of operations
Step 15 Order of operations
Step 16 Mental calculations and estimation
Step 17 Reason from known facts
PS Lesson
Assessment 3: Pause \& Stretch

## Fractions

## 5 weeks

Use common factors to simplify fractions

## Compare and order fractions, including fractions > 1

- Add and subtract fractions with different denominators and mixed
numbers, using the concept of equivalent fractions
- Identify common factors, common multiples and prime numbers

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

- Solve problems involving addition, subtraction, multiplication and division
- Multiply proper fractions and mixed numbers by whole
numbers, supported by materials and diagrams (Y5)
- Multiply simple pairs of proper fractions, writing the answer in its simplest form
- Divide proper fractions by whole numbers
- Add and subtract fractions with different denominators and
mixed numbers, using the concept of equivalent fractions
- Solve problems involving addition, subtraction, multiplication - and division

Associate a fraction with division and calculate decimal
Step 1 Equivalent fractions and simplifying
Step 2 Equivalent fractions on a number line Step 3 Compare and order (denominator)
Step 4 Compare and order (numerator)

## PS Lesson

## Assessment 4: Pause \& Stretch

Astep 5 Add and subtract simple fractions Step 6 Add and subtract any two fractions Step 7 Add mixed numbers
Step 8 Subtract mixed number
PS Lesson
Assessment 7: Pause \& Stretch
Assessment 7: Pause \& Stre
Step 9 Multi-step problems
Step 1 Multiply fractions by integers
Step 2 Multiply fractions by fractions
Step 3 Divide a fraction by an integer
Step 4 Divide any fraction by an integer
Step 4 Divide any fraction by an integer
Step 5 Mixed questions with fractions
Step 6 Fraction of an amount
Step 7 Fraction of an amount - find the whole
PS Lesson
Assessment 8: Pause \& Stretch

## Decimals

FDP
Ratio
Algebra
Area, Perimeter,
Statistics
Volume 2 weeks digit in numbers given to 3 decimal places and multiply and divide numbers by 10 , 00 and 1,000 giving answers p to 3 decimal places answers to be rounded to acified degrees of accuracy
Solve addition and subtraction multi-step problems in contexts, and methods to use and why Multiply 1 -digit numbers with up to 2 decimal places by whole numbers
Use written division methods in ases where the answer has Solve problems involvin addition, subtraction,
multiplication and division

- $\quad$ Place value to 3dp
- Add and subtrac
decimals
- Multiply decimals by 10 , 100, 1000
Divide decimals by 10 , 100, 1000
PS Lesson
- Assessment 10: Pause 8

Stretch
Multiply decimals by integers

- Divide decimals by integers
- PS Lesson
- Assessment 11: Pause \& Stretch

Block Opener/Assembly on
Careers linked to unit
International Puzzle Day (29.01.24)

- Recognise angles where they meet at point, are on a straight line, or are vertically opposite, and find missing angles
- Draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) (Y5)
- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (Y5)
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- Draw 2-D shapes using given dimensions and angles

Step 1 Measure and classify angles
Step 2 Calculate angles
Step 3 Vertically opposite angles
Step 4 Angles in a triangle
Step 5 Angles in a triangle - special cases
Step 6 Angles in a triangle - missing angles
Step 7 Angles in a quadrilatera
Step 8 Angles in polygons
Step 9 Circles
Step 10 Draw shapes accuratel
Step 11 Nets of 3-D shapes

- PS Lesson
- Assessment 20: Pause \& Stretch

Block Opener/Assembly on Careers linked to unit

National Numeracy Day (15.05.24)

Describe positions on the full coordinate grid (all four quadrants)

Draw and translate simple shapes on the coordinate plane, and reflect them in the axes

SATs Revision

## Step 1 The first quadrant

Step 2 Read and plot points in four quadrants Step 3 Solve problems with coordinates Step 4 Translations
Step 5 Reflections

- PS Lesson
- Assessment 23: Pause \& Stretch

Best Value
Profits \& Losses
Packaging
Cooking
White Rose Tours White Rose Futures

IMEI Calculator project ready
for Y7

## My Money Week (12-16/6/24)

My Money Week (12-16.06.24)
Alan Turing Day (23.06.24)
ingfield Education Trust TTRS Competition (01-05.07. 24)

MP Maths Orienteering Competition for all year groups (01-05.07.24)
ingfield Education Trust maths Challenge (12.07.24)

