	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Statistics		Number: Multiplication and Division			Measurement: Perimeter and Area	
Spring	Number: Multiplication and Division			Number: Fractions						Number: Decimals and Percentages		Consolidation
Summer	Consolidation	Number: Decimals			Geometry: Properties of Shape			Geometry: Position and Direction		Measurement: Converting Units		Measurement: Volume

Overview

Small Steps

- 1000s, 100s, 10s and 1s (R)
- Numbers to 10,000
- Rounding to the nearest 10 (R)
- Rounding to the nearest 100 (R)
- Round to nearest 10, 100 and 1,000
- Numbers to 100,000
- Compare and order numbers to 100,000
- Round numbers within 100,000
- Numbers to a million
- Counting in 10s, 100s, 1,000s, 10,000s, and 100,000s
- Compare and order numbers to one million
- Round numbers to one million
- Negative numbers
- Roman Numerals to 1,000

Notes for 2020/21

Before exploring numbers to 10,000 ensure that children are secure with 1000s, 100s, 10 and 1s.

You may also find it useful to recap rounding to the nearest 10 and 100 separately before expecting children to round to either 10, 100 and 1,000

Work on Roman Numerals has been moved to the end of the block as we believe it is important for children to be secure with our own number system before exploring another.

Overview

Small Steps

- Add two 4-digit numbers - one exchange (R)
- Add two 4-digit numbers - more than one exchange (R)
- Add whole numbers with more than 4 digits (column method)
- Subtract two 4-digit numbers - one exchange (R)
- Subtract two 4-digit numbers - more than one exchange (R)
- Subtract whole numbers with more than 4 digits (column method)
- Round to estimate and approximate
- Inverse operations (addition and subtraction)
- Multi-step addition and subtraction problems

Notes for 2020/21

We feel it is important that children have a secure understanding of the column method for addition and subtraction, so we've suggested extra time on these key concepts.

It may be something that children have forgotten.

Overview

Small Steps

Interpret charts	R
Comparison, sum and difference	R
Introduce line graphs	R
Read and interpret line graphs	
Draw line graphs	
Use line graphs to solve problems	
Read and interpret tables	
Two-way tables	
Timetables	

Notes for 2020/21

Children may have missed learning on statistics in Year 4.

We have included a recap on some of the trickier aspects of the topic such as interpreting charts and comparing results.

Overview

Small Steps

- Multiples
- Factors
- Common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply by 10 (R)
- Multiply by 100 (R)
- Multiply by 10, 100 and 1,000
- Divide by 10 (R)
- Divide by 100 (R)
- Divide by 10, 100 and 1,000
- Multiples of 10, 100 and 1,000

Notes for 2020/21

Multiplying and dividing by 10, 100 and 1,000 can be a difficult topic for children. We have therefore added in recap on this to ensure enough time is devoted to it.

This is an essential skill to master to enable children to be successful later.

Overview

Small Steps

Measure perimeter	
Perimeter on a grid	R
Perimeter of rectangles	R
Perimeter of rectilinear shapes	R
Calculate perimeter	
Counting squares	R
Area of rectangles	
Area of compound shapes	
Area of irregular shapes	

Notes for 2020/21

A recap of key learning from Year 4 may be useful here.

It is important that children understand perimeter and area on a grid before moving on to shapes with just side lengths marked.

Overview

Small Steps

Multiply 2-digits by 1-digit	R
Multiply 3-digits by 1-digit	R
Multiply 4-digits by 1-digit	
Multiply 2-digits (area model)	
Multiply 2-digits by 2-digits	
Multiply 3-digits by 2-digits	
Multiply 4-digits by 2-digits	
Divide 2-digits by 1-digit (1)	R
Divide 2-digits by 1-digit (2)	R
Divide 3-digits by 1-digit	R
Divide 4-digits by 1-digit	
Divide with remainders	

Notes for 2020/21

Before moving on to 4-digit multiplication, children may need to work with place value counters to support their understanding, of multiplying by 2- and 3-digit numbers.

The division steps may look similar but this is a difficult concept and children need to spend time exploring partitioning and dividing 2- and 3-digit numbers before working with larger numbers.
In the recap steps they will cover division with remainders using place value counters.

Overview

Small Steps

1	What is a fraction? R
2	Equivalent fractions (1) R
3	Equivalent fractions
4	Fractions greater than 1 R
5	Improper fractions to mixed numbers
6	Mixed numbers to improper fractions
7	Number sequences
8	Compare and order fractions less than 1
9	Compare and order fractions greater than 1
10	Add and subtract fractions
11	Add fractions within 1
12	Add 3 or more fractions
13	Add fractions

Notes for 2020/21

Children will need to look at different representations of fractions to expose any misconceptions.

They can then move onto a practical exploration of equivalent fractions by folding paper before comparing fractions with drawings and diagrams in these first recap steps.

Year 5 is the first time children explore improper fractions in depth so we have added a recap step from Year 4 where children add fractions to a total greater than one whole.

Overview

Small Steps

- Add mixed numbers
- Subtract fractions
- Subtract mixed numbers
- Subtract – breaking the whole
- Subtract 2 mixed numbers
- Multiply unit fractions by an integer
- Multiply non-unit fractions by an integer
- Multiply mixed numbers by integers
- Calculate fractions of a quantity (R)
- Fraction of an amount
- Using fractions as operators

Notes for 2020/21

As children progress through the small steps they use different representations to support their understanding of the abstract.

Before exploring fractions of an amount it may be useful to recap the Year 4 content with practical equipment and pictorial representations to help them see the relationships between the fraction and the whole.

Overview

Small Steps

- Decimals up to 2 d.p.
- Decimals as fractions (1)
- Decimals as fractions (2)
- Understand thousandths
- Thousandths as decimals
- Rounding decimals
- Order and compare decimals
- Understand percentages
- Percentages as fractions and decimals
- Equivalent F.D.P.

Notes for 2020/21

There are no recap steps here as this is all new learning for Year 5, building on the fractions block.

Children learn that both proper fractions and decimals can be used to represent values between whole numbers.

Rounding builds on earlier work on place value and explores different contexts, including measures.

Overview

Small Steps

- Adding decimals within 1
- Subtracting decimals within 1
- Complements to 1
- Adding decimals – crossing the whole
- Adding decimals with the same number of decimal places
- Subtracting decimals with the same number of decimal places
- Adding decimals with a different number of decimal places
- Subtracting decimals with a different number of decimal places
- Adding and subtracting wholes and decimals
- Decimal sequences
- Multiplying decimals by 10, 100 and 1,000
- Dividing decimals by 10, 100 and 1,000

Notes for 2020/21

This block follows on from learning on decimals in the spring term.

Note that the block has been pushed back to start in the second week of the summer term. This allows the first week to be used to ensure that children are confident in the decimals work they have covered previously.

Overview

Small Steps

Identify angles	R
Compare and order angles	R
Measure angles in degrees	
Measuring with a protractor (1)	
Measuring with a protractor (2)	
Drawing lines and angles accurately	
Calculating angles on a straight line	
Calculating angles around a point	
Triangles	R
Quadrilaterals	R
Calculating lengths and angles in shapes	
Regular and irregular polygons	
Reasoning about 3-D shapes	

Notes for 2020/21

Learning on properties of shape may have been missed during lockdown or covered remotely.

Children should recap the essential prerequisite knowledge from year 4 before moving on to look at year 5 content.

Overview

Small Steps

1. Describe position (R)
2. Draw on a grid (R)
3. Position in the first quadrant
4. Translation
5. Translation with coordinates
6. Lines of symmetry (R)
7. Complete a symmetric figure (R)
8. Reflection
9. Reflection with coordinates

Notes for 2020/21

Children have looked at plotting and reading coordinates in year 4 and this should be revisited before moving on to year 5 content.

You might notice that the order of reflection and translation has been changed, this is so clearer links can be made between reflection and previous learning on symmetry.

Overview

Small Steps

1. Kilometres (R)
2. Kilograms and kilometres
3. Millimetres and millilitres
4. Metric units
5. Imperial units
6. Converting units of time
7. Timetables

Notes for 2020/21

Children have converted between metres and kilometres in year 4 and now build on this to look at other conversions. It is a good idea to recap the small step on kilometres to reinforce the idea of the prefix 'kilo-' meaning 'thousand'.

Overview

Small Steps

- What is volume?
- Compare volume
- Estimate volume
- Estimate capacity

Notes for 2020/21

Here children are reintroduced to the idea of volume but in a more formal way than they have seen previously.