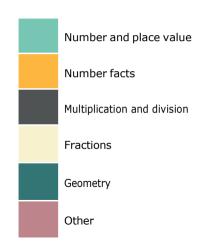
	Unit	Unit name	
Autumn 1	1	Decimal fractions	
	2	Money	
Autumn 2	3	Negative numbers	
	4	Number up to 1,000,000	
	5	Addition and Subtraction	
	6	Short multiplication and short division	
Spring 1	7	Area and scaling	
	8	Coordinates	
	9	Calculating with decimal fractions	
Spring 2	10	Factors, multiples and primes	
Summer 1	11	Fractions	
Summer 2	12	Converting units	
	13	Angles	
	14	Statistics	



Year 5 Curriculum map



Summer 2021

Year 5

Measurement and Statistics are integrated as applications of number criteria, and elements of measurementthat relate to shape are included in the Geometry strand.

Pre-assessment ready-to-progress questions used at the start of a unit to check that pupils have the prerequisite knowledge and skills.

SEND PRIORITISATION

Decimal fractions

• 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1.Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01

5B Unit 9 Decimals and percentages

- Lesson 4 Equivalent fractions and decimals hundredths
- Lesson 6 Thousandths as fractions
- Lesson 7 Thousandths as decimals

5C Unit 14 Decimals

- Lesson 13 Multiply by 10, 100 and 1,000
- Lesson 15 Divide by 10, 100 and 1,000
- 5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning.

4C Unit 11 Decimals (2)

- Lesson 2 Partition decimals
- Lesson 3 Flexibly partition decimals

5B Unit 9 Decimals and percentages

- Lesson 1 Write decimals up to 2 decimal places less than 1
- Lesson 2 Write decimals up to 2 decimal places greater than 1
- 5NPV-3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and round-ing to the nearest of each.

5B Unit 9 Decimals and percentages

- Lesson 9 Compare and order decimals same number of decimal places
- Lesson 10 Compare and order any decimals with up to 3 decimal places
- Lesson 11 Round to the nearest whole number
- Lesson 12 Round to one decimal place
- 5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked inunits of 1 with 2, 4, 5 and 10 equal parts.

5A Unit 5 Fractions (1)

- Lesson 6 Compare fractions less than 1
- Lesson 7 Order fractions less than 1

Lesson 8 Compare and order fractions greater than 1

- 5NF-2 Apply place-value knowledge to known additive and multiplicative number facts(scaling facts by 1 tenth or 1 hundredth).
- 5C Unit 14 Decimals
- Lesson 1 Add and subtract decimals within 1 (1)
- Lesson 2 Add and subtract decimals within 1 (2)
- Lesson 3 Complements to 1

Lesson 4 Add and subtract decimals across 1

- 1.23 Composition and calculation: tenths
- 1.24 Composition and calculation: hundredths and thousandths

5C Unit 14 Decimals

- Lesson 7 Add decimals with a different number of decimal places
- Lesson 8 Subtract decimals with a different number o decimal places
- Lesson 10 Problem solving with decimals (2)
- Lesson 11 Decimal sequences

Money

1.25 Addition and subtraction: money

4B Unit 12 Money

Lesson 2 Convert between pounds and pence

Lesson 3 Compare amounts of money

Lesson 5 Calculate with money

Negative numbers

1.27 Negative numbers: counting, comparing and calculating

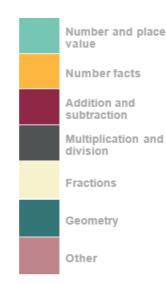
5C Unit 15 Negative numbers

Lesson 1 Understand negative numbers

Lesson 2 Count through zero

Lesson 3 Compare and order negative numbers

Lesson 4 Find the difference



Dark grey references are ready-to-progress criteria from the DfE Guidance 2020

Light grey references are from the NCETM Primary Mastery Professional Development materials

Blue references key Power Maths lessons

Number up to 1,000,000

6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).

5A Unit 1 Place value within 1,000,000 (1)

- Lesson 4 Numbers to 1,000,000

 Lesson 5 Read and write 5 and 6 digit numbers
- Lesson 6 Powers of 10
- Lesson 7 10/100/1,000/100,000 more or less

5A Unit 2 Place value within 1,000,000 (2)

- Lesson 1 Number line to 1,000,000
- Lesson 3 Compare and order numbers to 1,000,000
- Lesson 4 Round numbers to the nearest 100,000
- Lesson 6 Round numbers to the nearest 10, 100 and 1000

Addition and subtraction

5A Unit 3 Addition and subtraction

- Lesson 1 Mental strategies (addition)
- Lesson 2 Mental strategies (subtraction)
- Lesson 3 Add whole numbers with more than 4 digits (1)
- Lesson 4 Add whole numbers with more than 4 digits (2)
- Lesson 5 Subtract whole numbers with more than 4 digits (1)
- Lesson 6 Subtract whole numbers with more than 4 digits (2)
 - **Lesson 7 Round to check answers**
- **Lesson 8 Inverse operations (addition and subtraction)**
- **Lesson 11 Solve missing number problems**

Short multiplication and short division

5MD-3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.

5B Unit 7 Multiplication and division (2)

- Lesson 1 Multiply a number up to 4-digits by a 1-digit number
- Lesson 3 Multiply 2-digit numbers
- Lesson 5 Multiply a 4-digit number by a 2-digit number
- 5MD-4 Divide a number with up to 4 digits by a one-digit number using a formal writtenmethod, and interpret remainders appropriately for the context.

- 5B Unit 7 Multiplication and division (2)

 Lesson 6 Divide a number up to 4 digits by a 1-digit number (1)
- Lesson 7 Divide a number up to 4 digits by a 1-digit number (2)

Lesson 8 Divide with remainders

- 2.14 Multiplication: partitioning leading to short multiplication
- 2.15 Division: partitioning leading to short division

Area and scaling

5G-2 Compare areas and calculate the area of rectangles (including squares) using standard units.

5B Unit 10 Measure - perimeter and area

- Lesson 5 Area of rectangles (1)
- Lesson 6 Area of rectangles (2)
- Lesson 7 Area of compound shapes

Lesson 8 Estimate area

2.16 Multiplicative contexts: area and perimeter 1

5B Unit 10 Measure - perimeter and area

Lesson 1 Perimeter of rectangles

Lesson 3 Perimeter of rectilinear shapes (2)

Lesson 4 Perimeter of polygons

2.17 Structures: using measures and comparison to understand scaling

Coordinates

4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within thefirst quadrant.

5C Unit 13 Geometry-position and direction

- Lesson 1 Read and plot coordinates
- Lesson 3 Translate shapes
- **Lesson 4 Translate points**
- Lesson 5 Reflection
- **Lesson 6 Reflection in horizontal and vertical lines**

Calculating with decimal fractions

 5MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.

5A Unit 4 Multiplication and division (1)

- Lesson 8 Multiply by 10, 100 and 1,000
- Lesson 9 Divide by 10, 100 and 1,000
- 2.19 Calculation: x/÷ decimal fractions by whole numbers
- 2.29 Decimal place-value knowledge, multiplication and division

5A Unit 6 Fractions (2)

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- Lesson 3 Add fractions with a total greater than 1
- Lesson 5 Add two mixed numbers
- Lesson 7 Subtract from a mixed number
- . Lesson 8 Subtract from a mixed number-breaking the whole
- Lesson 9 Subtract two mixed numbers
- Lesson 11 Solve multi-step fraction problems

Factors, multiples and primes

 5MD-2 Find factors and multiples of positive whole numbers, including common factors andcommon multiples, and express a given number as a product of 2 or 3 factors.

5A Unit 4 Multiplication and division (1)

- Lesson 1 Multiples
- Lesson 2 Common multiples
- Lesson 3 Factors
- Lesson 4 Common factors
- 2.20 Multiplication with three factors and volume

5C Unit 17 Measure-volume

- Lesson 2 Compare volumes
- Lesson 3 Estimate volumes
- 2.21 Factors, multiples, prime numbers and composite numbers

5A Unit 4 Multiplication and Division (1)

Lesson 5 Prime numbers

Lesson 6 Square numbers

Lesson 7 Cube numbers

Fractions

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4F-3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.

5A Unit 5 Fractions (1)

Lesson 4 Improper fractions to mixed numbers
 Lesson 5 Mixed numbers to improper fractions

 5NPV-5 Convert between units of measure, including using common decimals and fractions.

5C Unit 16 Measure - converting units

- Lesson 1 Kilograms and kilometres
- Lesson 2 Millimetres and millilitres
- Lesson 3 Convert units of length
 Lesson 4 Imperial units of length
- Lesson 4 Imperial units of length
- Lesson 5 Imperial units of mass
- Lesson 6 Imperial units of capacity
 Lesson 8 Timetables-calculating
- Lesson 10 Problem solving -units of measure (2)
- 5F–1 Find non-unit fractions of quantities.

4B Unit 9 Fractions (2)

- Lesson 7 Fraction of an amount
- Lesson 8 Problem solving fraction of an amount

5B Unit 8 Fractions (3)

- Lesson 5 Fraction of an amount
- Lesson 6 Finding the whole
- 5F-2 Find equivalent fractions and understand that they have the same value and the

same position in the linear number system.

5A Unit 5 Fractions (1)

- Lesson 1 Equivalent fractions
- Lesson 2 Equivalent fractions unit and non-unit fractions
- Lesson 3 Equivalent fractions families of equivalent fractions
- 5F-3 Recall decimal fraction equivalents for 1/2, 1/4, 1/5 and 1/10, and for multiples of theseproper fractions.

5B Unit 9 Decimals and percentages

- Lesson 3 Equivalent fractions and decimals tenths
- Lesson 5 Equivalent fractions and decimals
- 3.6 Multiplying whole numbers and fractions

5B Unit 8 Fractions (3)

- Lesson 2 Multiply non-unit fractions by an integer
- Lesson 4 Multiply mixed numbers by integers (2)

Lesson 5 Fraction of an amount

Lesson 7 Using fractions as operators

- 3.7 Finding equivalent fractions and simplifying fractions
- 3.10 Linking fractions, decimals and percentages

5B Unit 9 Decimals and percentages

- Lesson 13 Understand percentages
- Lesson 14 Percentages as fractions and decimals
- Lesson 15 Equivalent fractions, decimals and percentages

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Converting units

5NPV-5 Convert between units of measure, including using common decimals and fractions.

5C Unit 16 Measure – converting units

- Lesson 1 Kilograms and kilometres
- Lesson 2 Millimetres and millilitres
- Lesson 3 Convert units of length
- · Lesson 4 Imperial units of length
- Lesson 5 Imperial units of mass
- Lesson 6 Imperial units of capacity

Angles

 5G-1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size.

5C Unit 12 Geometry – properties of shapes
• Lesson 1 Understand and use degrees
• Lesson 2 Measure acute angles
• Lesson 3 Measure angles up to 180°

- Lesson 4 Draw lines and angles accurately
- Lesson 5 Calculate angles around a point
- · Lesson 6 Calculate angles on a straight line
- Lesson 7 Lengths and angles in shapes
- · Lesson 8 Regular and irregular polygons
- Lesson 9 Parallel lines
- Lesson 10 Perpendicular lines
- Lesson 12 3D Shapes

Statistics

This topic is part of the National Curriculum but is not included in the DfE 2020 guidanceor the **NCETM Mastery PD Materials.**

5B Unit 11-Graphs and tables

- Lesson 3 Read and interpret line graphs (2)
- **Lesson 5 Two-way tables**
- **Lesson 6 Timetables**