Unit	Unit name
1	**Adding and subtracting across 10**
2	**Numbers to 1,000**
3	**Right angles**
4	**Manipulating the additive relationship and securing mental calculation**
5	**Column addition**
6	**2, 4, 8 times tables**
7	**Column subtraction**
8	**Unit fractions**
9	**Non-unit fractions**
10	**Parallel and perpendicular sides in polygons**
11	**Time**
12	**Measurement**
13	**Statistics**

Autumn 1 — Units 1, 2

Autumn 2

Spring 1 — Units 3, 4

Spring 2 — Units 5, 6, 7

Summer 1 — Unit 8

Summer 2 — Units 9, 10, 11, 12, 13

Legend:
- Number and place value
- Number facts
- Addition and subtraction
- Multiplication and division
- Fractions
- Geometry
- Other

Year 3
Curriculum map

Year 3

Measurement and Statistics are integrated as applications of number criteria, and elements of measurement that 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 pre-requisite knowledge and skills.

SEND PRIORITISATION

	Number and place value
	Number facts
	Addition and subtraction
	Multiplication and division
	Fractions
	Geometry
	Other

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

1 Adding and subtracting across 10

- 2AS–1 Add and subtract across 10.

2A Unit 2 Addition and subtraction (1)
- **Lesson 6 Add by making 10**
- **Lesson 7 Add using a number line**
- **Lesson 10 Add across a 10**
- **Lesson 11 Subtract across a 10**
- **Lesson 13 Subtract a 1-digit number from a 2-digit number – across 10**

- 3NF–1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice.

3A Unit 2 Addition and subtraction (1)
- **Lesson 6 Add 1s across 10**
- **Lesson 8 Subtract 1s across 10**

3A Unit 3 Addition and subtraction (2)
- **Lesson 3 Add two numbers (across 10)**
- **Lesson 5 Subtract two numbers (across 10)**

- 1.11 Addition and subtraction: bridging 10

2 Numbers to 1,000

- 3NPV–1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10.

3A Unit 1 Place value within 1,000
- **Lesson 3 100s**
- **Lesson 5 Partition numbers to 1,000**

3B Unit 6 Multiplication and division (3)
- **Lesson 1 Multiples of 10**

- 3NPV–2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.

3A Unit 1 Place value within 1,000
- **Lesson 4 Represent numbers to 1,000**
- **Lesson 6 Partition numbers to 1,000 flexibly**
- **Lesson 7 100s, 10s and 1s**
- **Lesson 13 Count in 50s**

- 3NPV–3 Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10.

3A Unit 1 Place value within 1,000
- **Lesson 10 Find 1, 10 and 100 more or less**
- **Lesson 11 Compare numbers to 1,000**
- **Lesson 12 Order numbers to 1,000**

- 3NPV–4 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.

3A Unit 1 Place value within 1,000
- **Lesson 8 Use a number line to 1,000**
- **Lesson 9 Estimate on a number line to 1,000**

- 3AS–1 Calculate complements to 100.

3A Unit 3 Addition and subtraction (2)
- **Lesson 9 Complements to 100**
- **Lesson 12 Problem solving (1)**

- 3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).

3A Unit 2 Addition and subtraction (1)
- **Lesson 1 Use known number bonds**
- **Lesson 2 Add/subtract 1s**
- **Lesson 3 Add/subtract 10s**
- **Lesson 4 Add/subtract 100s**
- **Lesson 5 Spot the pattern**
- **Lesson 7 Add 10s across 100**
- **Lesson 9 Subtract 10s across 100**
- **Lesson 10 Make connections**

- 1.17 Composition and calculation: 100 and bridging 100
- 1.18 Composition and calculation: three-digit numbers

3 Right angles

- 3G–1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.

3C Unit 14 Angles and properties of shapes
- **Lesson 1 Turns and angles**
- **Lesson 2 Right angles in shapes**
- **Lesson 3 Compare angles**

4	**Manipulating the additive relationship and securing mental calculation** • **3AS–3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction.** **3A Unit 3 Addition and subtraction (2)** • **Lesson 11 Inverse operations** • 1.19 Securing mental strategies: calculation up to 999
5	**Column addition** • **3AS–2 Add and subtract up to three-digit numbers using columnar methods.** **3A Unit 3 Addition and subtraction (2)** • **Lesson 1 Add two numbers** • **Lesson 4 Add two numbers (across 100)** • **Lesson 7 Add a 3-digit number and a 2-digit** • **number** • 1.20 Algorithms: column addition
6	**2, 4, 8 times tables** • **3MD–1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.** **3A Unit 5 Multiplication and division (2)** • **Lesson 10 Problem solving – multiplication and division (1)** • **Lesson 11 Problem solving – multiplication and division (2)** • **3NF–2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number.** **3A Unit 4 Multiplication and division (1)** • **Lesson 2 Use arrays** • **Lesson 3 Multiples of 2** • **Lesson 4 Multiples of 5 and 10** **3A Unit 5 Multiplication and division (2)** • **Lesson 3 The 3 times-table** • **Lesson 4 Multiply by 4** • **Lesson 5 Divide by 4** • **Lesson 6 4 times-table** • **Lesson 7 Multiply by 8** • **Lesson 8 Divide by 8** • **Lesson 9 8 times-table** **3B Unit 6 Multiplication and division (3)** • **Lesson 7 Link multiplication and division** • **3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).** **3B Unit 6 Multiplication and division (3)** • **Lesson 2 Related calculations** • **Lesson 4 Multiply 2-digits by 1-digit-no exchange** • **Lesson 5 Multiply 2-digits by 1 digit – exchange** • **Lesson 6 Expanded written method** • **Lesson 8 Divide 2-digits by 1-digit – no exchange** • **Lesson 10 Divide 2-digits by 1 -digit with remainders** • **Lesson 12 Problem solving – mixed problems (1)** • 2.7 Times tables: 2, 4 and 8, and the relationship between them
7	**Column subtraction** • **3AS–2 Add and subtract up to three-digit numbers using columnar methods.** **3A Unit 3 Addition and subtraction (2)** • **Lesson 2 Subtract two numbers** • **Lesson 6 Subtract two numbers (across 100)** • **Lesson 8 Subtract a 2-digit number from a 3-digit number** • **Lesson 10: Estimate answers** • 1.21 Algorithms: column subtraction
8	**Unit fractions** • **3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.** **3B Unit 8 Fractions (1)** **Lesson 1 Understand the denominator of unit fractions** • **3F–2 Find unit fractions of quantities using known division facts (multiplication tables fluency).** **3C Unit 11 Fractions (2)** **Lesson 5 Unit fractions of a set of objects** **Lesson 6 Non-unit fractions of a set of objects** **Lesson 8 Problem solving – fractions of measures**

9	 **Non-unit fractions** • 3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. **3B Unit 8 Fractions (1)** • Lesson 3 Understand the numerator of non-unit Fractions • Lesson 4 Understand the whole • 3F–3 Reason about the location of any fraction within 1 in the linear number system. **3B Unit 8 Fractions (1)** • Lesson 2 Compare and order unit fractions • Lesson 5 Compare and order non-unit fractions • Lesson 6 Divisions on a number line • Lesson 7 Count in fractions on a number line • Lesson 9 Equivalent fractions on a number line • 3F–4 Add and subtract fractions with the same denominator, within 1. **3C Unit 11 Fractions (2)** • Lesson 1 Add fractions • Lesson 2 Subtract fractions • Lesson 3 Partition the whole • Lesson 4 Problem solving – add and subtract fractions • 3.3 Non-unit fractions: identifying, representing and comparing • 3.4 Adding and subtracting within one whole
10	**Parallel and perpendicular sides in polygons** • 3G–2 Draw polygons by joining marked points, and identify parallel and perpendicular sides. **3C Unit 14 Angles and properties of shapes** • Lesson 4 Measure and draw accurately • Lesson 6 Parallel and perpendicular • Lesson 7 Recognise, draw and describe 2D shapes • Lesson 8 Recognise and describe 3D shapes

11	**Time**
	• This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery PD Materials.
	3C Unit 13 Time
	   • Lesson 2 Tell the time to 5 minutes
	   • Lesson 3 Tell the time to the minute
	   • Lesson 5 Use am and pm
	   • Lesson 6 Years, months and days
	   • Lesson 7 Days and hours
	   • Lesson 9 Hours and minutes-durations
	   • Lesson 10 Hours and minutes – compare durations

12	**Measurement**
	This topic is part of the National Curriculum but is not included in the DfE 2020 guidanceor the NCETM Mastery PD Materials.
	3B Unit 7 Length and perimeter
	   • Lesson 1 Measure in m and cm
	   • Lesson 2 Measure in cm and mm
	   • Lesson 4 Equivalent lengths (m and cm)
	   • Lesson 5 Equivalent lengths (mm and cm)
	   • Lesson 6 Compare lengths
	   • Lesson 7 Add lengths
	   • Lesson 8 Subtract lengths
	   • Lesson 9 Measure perimeter
	   • Lesson 10 Calculate perimeter
	3B Unit 9-Mass
	   • Lesson 1 Use scales
	   • Lesson 2 Measure mass
	   • Lesson 3 Measure mass in kilograms and grams
	   • Lesson 5 Compare mass
	   • Lesson 6 Add and subtract mass
	3B Unit 10-Capacity
	   • Lesson 1 Measure capacity and volume in litres and milliliters
	   • Lesson 2 Measure in litres and milliliters
	   • Lesson 4 Compare capacity and volume
	   • Lesson 5 Add and subtract capacity and volume
	3C Unit 12-Money
	   • Lesson 1 Pounds and pence
	   • Lesson 2 Convert pounds and pence
	   • Lesson 3 Add money
	   • Lesson 4 Subtract money

13

Statistics

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3C Unit 15-Statistics
- **Lesson 2 Interpret pictograms (2)**
- **Lesson 4 Interpret bar charts (1)**
- **Lesson 5 Interpret bar charts (2)**
- **Lesson 7 Simple two-way tables**

Collecting and represent data in a bar chart can be addressed through science and the Innovate stage scientific enquiry when pupils:

- Gather, record, classify and present observations and measurements in a variety of ways (pictorial representations, timelines, diagrams, keys, tables, charts and graphs).