

| | Year 1 | Purple references are ready- |
|----|---|--------------------------------|
| | Previous Reception experiences and counting within 100 | to-progress criteria from the |
| 1 | 1NPV-1 Count within 100, forwards and backwards, starting with any number. | DfE Guidance 2020 |
| - | • 1.9 Composition of numbers: 20–100 | |
| | Comparison of quantities and part—whole relationships | Dark Blue references are from |
| | 1NPV-1 Count within 100, forwards and backwards, starting with any number. | the NCETM Primary Mastery |
| _ | • 1NPV–2 Reason about the location of numbers to 20 within the linear number system, | Professional Development |
| 2 | including comparing using < > and =. | materials |
| | 1.1 Comparison of quantities and measures | Light Blue references are from |
| | 1.2 Introducing 'whole' and 'parts': part–part–whole | White Rose Small Steps |
| | Numbers 0 to 5 | Planning |
| | • 1NPV-2 Reason about the location of numbers to 20 within the linear number system, | All are available online |
| 3 | including comparing using < > and =. | All are available offiline |
| _ | 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, | Number and Place Value |
| | including recognising odd and even numbers. | Number Facts |
| | • 1.3 Composition of numbers: 0–5 | Number Facts |
| | Recognise, compose, decompose and manipulate 2D and 3D shapes | Addition and Subtraction |
| | 1G–1 Recognise common 2D and 3D shapes presented in different orientations, and know | Multiplication and |
| 4 | that rectangles, triangles, cuboids and pyramids are not always similar to one another. | Division |
| | • 1G–2 Compose 2D and 3D shapes from smaller shapes to match an example, including | Division |
| | manipulating shapes to place them in particular orientations. | Fractions |
| | Numbers 0 to 10 | |
| | • 1NPV-2 Reason about the location of numbers to 20 within the linear number system, | Geometry |
| 5 | including comparing using < > and =. | |
| 5 | • 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, | Other |
| | including recognising odd and even numbers. | |
| | • 1.4 Composition of numbers: 6–10 | |
| | Additive structures | |
| | 1AS—2 Read, write and interpret equations containing addition (+), subtraction (-) and according to the sent selection of t | |
| 6 | equals (=) symbols, and relate additive expressions and equations to real-life contexts. • 1.5 Additive structures: introduction to aggregation and partitioning | |
| | 1.5 Additive structures: introduction to aggregation and partitioning 1.6 Additive structures: introduction to augmentation and reduction | |
| | Addition and subtraction facts within 10 | |
| 7 | 1NF–1 Develop fluency in addition and subtraction facts within 10. | |
| | 1.7 Addition and subtraction: strategies within 10 | |
| | Numbers 0 to 20 | |
| 8 | • 1NPV-2 Reason about the location of numbers to 20 within the linear number system, | |
| ۰ | including comparing using < > and =. | |
| | • 1.10 Composition of numbers: 11–19 | |
| | Unitising and coin recognition | |
| | • 1NF–2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, | |
| 9 | beginning with any multiple, and count forwards and backwards through the odd | |
| | numbers. | |
| | 2.1 Counting, unitising and coins Perision and direction | |
| 10 | Position and direction This topic is part of the National Curriculum but is not included in the DfE 2020 | |
| 10 | guidance or the NCETM Mastery PD Materials. Plan from White Rose Year 1 Summer. | |
| | Time | |
| 11 | This topic is part of the National Curriculum but is not included in the DfE 2020 | |
| | guidance or the NCETM Mastery PD Materials. Plan from White Rose Year 1 Summer. | |
| | W. C. | ı |



| | | Year 2 |
|---|----|--|
| | | Numbers 10 to 100 |
| | | • 2NPV-1 Recognise the place value of each digit in two-digit numbers, and compose and |
| | | decompose two-digit numbers using standard and non-standard partitioning. |
| | 1 | 2NPV-2 Reason about the location of any two-digit number in the linear number system, |
| | | including identifying the previous and next multiple of 10. |
| | | • 1.8 Composition of numbers: multiples of 10 up to 100 |
| | | • 1.9 Composition of numbers: 20–100 |
| | | Calculations within 20 |
| | | 2AS-1 Add and subtract across 10. |
| | | 2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the |
| | 2 | form, "How many more?". |
| | | 1.11 Addition and subtraction: bridging 10 |
| | | • 1.12 Subtraction as difference |
| | | Fluently add and subtract within 10 |
| ı | | 2NF-1 Secure fluency in addition and subtraction facts within 10, through continued |
| ı | 3 | practice. |
| ı | | 1.7 Addition and subtraction: strategies within 10 |
| | | Addition and subtraction of two-digit numbers (1) |
| | | 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction |
| | 4 | facts: add and subtract only ones or only tens to/from a two-digit number. |
| | | 1.13 Addition and subtraction: two-digit and single-digit numbers |
| | | • 1.14 Addition and subtraction: two-digit numbers and multiples of ten |
| Ī | | Introduction to multiplication |
| ı | | • 2MD-1 Recognise repeated addition contexts, representing them with multiplication |
| ı | | equations and calculating the product, within the 2, 5 and 10 multiplication tables. |
| | 5 | 2.2 Structures: multiplication representing equal groups |
| ı | | 2.3 Times tables: groups of 2 and commutativity (part 1) |
| ı | | 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1 |
| ı | | 2.5 Commutativity (part 2), doubling and halving |
| ı | | Introduction to division structures |
| ı | | 2MD–2 Relate grouping problems where the number of groups is unknown to multiplication |
| ı | 6 | equations with a missing factor, and to division equations (quotitive division). |
| ı | | 2.6 Structures: quotitive and partitive division |
| | | Shara |
| | 7 | Shape • 2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare |
| | ′ | shapes by reasoning about similarities and differences in properties. |
| | | Addition and subtraction of two-digit numbers (2) |
| | | 2AS—4 Add and subtract within 100 by applying related one-digit addition and subtraction |
| | 8 | facts: add and subtract any 2 two-digit numbers. |
| | | 1.15 Addition: two-digit and two-digit numbers |
| | | 1.16 Subtraction: two-digit and two-digit numbers |
| | | Money |
| | 9 | This topic is part of the National Curriculum but is not included in the DFE 2020 guidance or |
| ı | _ | the NCETM Mastery Professional Development Materials. Plan from White Rose Year 2 Autumn |
| | | Fractions |
| | 10 | 3.0 Guidance on the teaching of fractions in Key Stage 1 |
| | | Time |
| | 11 | This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or |
| | | the NCETM Mastery Professional Development Materials. Plan from White Rose Year 2 Summer |
| | | Position and direction |
| | 12 | This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or |
| | | the NCETM Mastery Professional Development Materials. Plan from White Rose Year 2 Summer |
| | | Multiplication and division – doubling, halving, quotitive and partitive division |
| ا | 13 | 2.5 Commutativity (part 2), doubling and halving |
| ا | | 2.6 Structures: quotitive and partitive division |
| | | Sense of measure – capacity, volume, mass |
| | | |
| J | 14 | This topic is part of the National Curriculum out is not included in the Dre 2020 guidance or |
| | 14 | This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or the NCETM Mastery Professional Development Materials. Plan from White Rose Year 2 Summer |

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Dark Blue references are from the NCETM Primary Mastery Professional Development materials

Light Blue references are from White Rose Small Steps Planning

| Number and Place Value |
|------------------------|
| Number Facts |

| Addition and Subtraction |
|--------------------------|
| Multiplication and |

| Division | |
|-----------|--|
| Fractions | |

| _ | |
|---|----------|
| | Geometry |





| | | Year 3 |
|---|----|---|
| | | Adding and subtracting across 10 |
| | | 2AS—1 Add and subtract across 10. |
| | 1 | • 3NF-1 Secure fluency in addition and subtraction facts that bridge 10, through continued |
| | | practice. |
| | | 1.11 Addition and subtraction: bridging 10 |
| | | 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. • 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. |
| | | 3NPV–3 Reason about the location of any three-digit number in the linear number system, |
| | 2 | including identifying the previous and next multiple of 100 and 10. |
| | | • 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. |
| | | 3AS-1 Calculate complements to 100. 3NS-3 Apply along value in a value from a district and multiplication a various facts. |
| | | 3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). |
| | | 1.17 Composition and calculation: 100 and bridging 100 |
| | | 1.18 Composition and calculation: three-digit numbers |
| | | Right angles |
| | 3 | • 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. |
| | | 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 |
| | 4 | and use the commutative property of addition, and understand the related property for |
| | | subtraction. |
| | | 1.19 Securing mental strategies: calculation up to 999 |
| | _ | Column addition |
| | 5 | 3AS-2 Add and subtract up to three-digit numbers using columnar methods. 1.20 Algorithms: column addition |
| | | 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. |
| | | • 3NF–2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 |
| | 6 | and 8 multiplication tables, and recognise products in these multiplication tables as |
| | | multiples of the corresponding number. • 3NF–3 Apply place-value knowledge to known additive and multiplicative number facts |
| | | (scaling facts by 10). |
| | | • 2.7 Times tables: 2, 4 and 8, and the relationship between them |
| | | Column subtraction |
| | 7 | 3AS-2 Add and subtract up to three-digit numbers using columnar methods. |
| | | 1.21 Algorithms: column subtraction Unit fractions |
| | | Interpret and write proper fractions to represent 1 or several parts of a whole that is |
| | | divided into equal parts. |
| | 8 | 3F–2 Find unit fractions of quantities using known division facts (multiplication tables |
| | | fluency). |
| | | 3F–3 Reason about the location of any fraction within 1 in the linear number system. |
| | | 3.1 Preparing for fractions: the part—whole relationship |
| | | 3.2 Unit fractions: identifying, representing and comparing 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. |
| | 9 | • 3F–3 Reason about the location of any fraction within 1 in the linear number system. |
| | | 3F-4 Add and subtract fractions with the same denominator, within 1. |
| | | 3.3 Non-unit fractions: identifying, representing and comparing 3.4 Adding and subtracting within one whole |
| | | 3.4 Adding and subtracting within one whole Parallel and perpendicular sides in polygons |
| | 10 | 3G–2 Draw polygons by joining marked points, and identify parallel and perpendicular |
| | | sides. |
| | | Time |
| | 11 | This topic is part of the National Curriculum but is not included in the DfE 2020 guidance |
| | 11 | |
| | 11 | or the NCETM Mastery PD Materials. Plan from White Rose Year 3 Summer |

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- Number and Place Value
- Number Facts
- Addition and Subtraction
- Multiplication and Division
- Fractions
- Geometry
 - Other



| | | Year 4 |
|---|----|---|
| | | Review of column addition and subtraction |
| | | 3AS-2 Add and subtract up to three-digit numbers using columnar methods. |
| | 1 | 1.20 Algorithms: column addition |
| | | 1.21 Algorithms: column subtraction |
| | | Numbers to 10,000 |
| | | 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times |
| | | the size of 100; apply this to identify and work out how many 100s there are in other |
| | | four-digit multiples of 100. |
| | | 4NPV-2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning. |
| | | 4NPV=3 Reason about the location of any four-digit number in the linear number system, |
| | 2 | including identifying the previous and next multiple of 1,000 and 100, and rounding to the |
| | | nearest of each. |
| | | • 4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked |
| | | in multiples of 1,000 with 2, 4, 5 and 10 equal parts. |
| | | 4NF–3 Apply place-value knowledge to known additive and multiplicative number facts |
| | | (scaling facts by 100). |
| | | 1.22 Composition and calculation: 1,000 and four-digit numbers |
| | | Perimeter |
| | 3 | 4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular |
| | , | and irregular polygons. |
| | | 2.16 Multiplicative contexts: area and perimeter 1 |
| | | 3, 6, 9 times tables |
| | 4 | • 4NF-1 Recall multiplication and division facts up to 12×12, and recognise products in |
| | 4 | multiplication tables as multiples of the corresponding number. |
| | | • 2.8 Times tables: 3, 6 and 9, and the relationship between them |
| | | 7 times table and patterns |
| | 5 | 4NF–1 Recall multiplication and division facts up to 12×12, and recognise products in |
| | | multiplication tables as multiples of the corresponding number. • 2.9 Times tables: 7 and patterns within/across times tables |
| - | | Understanding and manipulating multiplicative relationships |
| | | 4MD–1 Multiply and divide whole numbers by 10 and 100 (keeping to whole number) |
| | | quotients); understand this as equivalent to making a number 10 or 100 times the size. |
| | | • 4MD-2 Manipulate multiplication and division equations, and understand and apply the |
| | 6 | commutative property of multiplication. |
| | ŭ | 4MD–3 Understand and apply the distributive property of multiplication. |
| | | 4NF–3 Apply place-value knowledge to known additive and multiplicative number facts |
| | | (scaling facts by 100) |
| | | 2.10 Connecting multiplication and division, and the distributive law 2.13 Calculation: multiplying and dividing by 10 or 100 |
| | | Coordinates |
| | _ | 4G–3 Identify line symmetry in 2D shapes presented in different orientations. Reflect |
| | 7 | shapes in a line of symmetry and complete a symmetric figure or pattern with respect to |
| | | a specified line of symmetry. |
| | | Review of fractions |
| | 8 | 3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is |
| | | divided into equal parts. |
| | | 3.1 Preparing for fractions: the part—whole relationship Fractions greater than 1 |
| | | 4F–1 Reason about the location of mixed numbers in the linear number system. |
| | _ | 4F–2 Convert mixed numbers to improper fractions and vice versa. |
| | 9 | • 4F-3 Add and subtract improper and mixed fractions with the same denominator, including |
| | | bridging whole numbers. |
| | _ | 3.5 Working across one whole: improper fractions and mixed numbers |
| | | Symmetry in 2D shapes |
| | 10 | 4G=3 Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or nattern with respect to |
| | | shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. |
| | | Time |
| | 11 | This topic is part of the National Curriculum but is not included in the DfE 2020 guidance or |
| | | the NCETM Mastery PD Materials. Plan from White Rose Year 4 Summer |
| | | Division with remainders |
| | 12 | • 4NF–2 Solve division problems, with two-digit dividends and one-digit divisors, that involve |
| | 12 | remainders. |
| | | 2.12 Division with remainders |

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- Number and Place Value
- Number Facts
- Addition and Subtraction
- Multiplication and Division
- Fractions
- Geometry
- Other



| | | Year 5 |
|--|----|---|
| | | 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. |
| | | SNPV–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 |
| | | nonstandard partitioning. |
| | 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 rounding to |
| | | the nearest of each. |
| | | 5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in |
| | | units of 1 with 2, 4, 5 and 10 equal parts. |
| | | 5NF–2 Apply place-value knowledge to known additive and multiplicative number facts |
| | | (scaling facts by 1 tenth or 1 hundredth). |
| | | 1.23 Composition and calculation: tenths |
| | | 1.24 Composition and calculation: hundredths and thousandths |
| | _ | Money |
| | 2 | 1.25 Addition and subtraction: money |
| | | Negative numbers |
| | 3 | 1.27 Negative numbers: counting, comparing and calculating |
| | | 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. |
| | 4 | 5MD–4 Divide a number with up to 4 digits by a one-digit number using a formal written |
| | * | method, and interpret remainders appropriately for the context. |
| | | |
| | | 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 |
| | 5 | units. |
| | | 2.16 Multiplicative contexts: area and perimeter 1 |
| | | 2.17 Structures: using measures and comparison to understand scaling |
| | | Calculating with decimal fractions |
| | | 5MD–1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making |
| | 6 | a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. |
| | | 2.19 Calculation: ×/÷ decimal fractions by whole numbers |
| | | 2.29 Decimal place-value knowledge, multiplication and division |
| | | Factors, multiples and primes |
| | | • 5MD-2 Find factors and multiples of positive whole numbers, including common factors and |
| | 7 | common multiples, and express a given number as a product of 2 or 3 factors. |
| | | 2.20 Multiplication with three factors and volume |
| | | 2.21 Factors, multiples, prime numbers and composite numbers |
| | | Fractions |
| | | 5NPV–5 Convert between units of measure, including using common decimals and fractions. |
| | | • 5F–1 Find non-unit fractions of quantities. |
| | | FF–2 Find equivalent fractions and understand that they have the same value and the same |
| | | position in the linear number system. |
| | 8 | • 5F–3 Recall decimal fraction equivalents for 1/2, 1/4, 1/5 and 1/10, and for multiples of these |
| | | proper fractions. |
| | | 3.6 Multiplying whole numbers and fractions |
| | | |
| | | 3.7 Finding equivalent fractions and simplifying fractions |
| | | 3.10 Linking fractions, decimals and percentages |
| | 9 | Converting units |
| | 9 | 5NPV-5 Convert between units of measure, including using common decimals and fractions. |
| | | Angles and transformations |
| | 10 | • 5G–1 Compare angles, estimate and measure angles in degrees (*) and draw angles of a |
| | 10 | given size. |
| | | Biven size. |

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- Other |



| Numbers up to 10,000,000 • 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 m and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousand times the size (multiply and divide by 10, 100 and 1,000). • 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standar and non-standard partitioning. • 6NPV-3 Reason about the location of any number up to 10 million, including decimal in the linear number system, and round numbers, as appropriate, including in contexts. • 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal partition and calculation: numbers up to 10,000,000 Multiples of 1,000 • 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 Multiplication and division • 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a recalculation, using arithmetic properties, inverse relationships, and place-value understal and calculate calculate or calculate | dth grd fractions, I parts, arts. |
|---|---|
| 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 m and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousand times the size (multiply and divide by 10, 100 and 1,000). 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standar and non-standard partitioning. 6NPV-3 Reason about the location of any number up to 10 million, including decimal in the linear number system, and round numbers, as appropriate, including in contexts. 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal partition. 30 Composition and calculation: numbers up to 10,000,000 Multiples of 1,000 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 Multiplication and division 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a recalculation, using arithmetic properties, inverse relationships, and place-value understa | dth grd fractions, I parts, arts. |
| decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. • 6NPV—3 Reason about the location of any number up to 10 million, including decimal is in the linear number system, and round numbers, as appropriate, including in contexts. • 6NPV—4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parallel and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parallel and calculation and calculation: numbers up to 10,000,000 Multiples of 1,000 • 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 Multiplication and division • 6AS/MD—2 Use a given additive or multiplicative calculation to derive or complete a recalculation, using arithmetic properties, inverse relationships, and place-value understa | rd fractions, I parts, arts. |
| in the linear number system, and round numbers, as appropriate, including in contexts. • 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal pa • 1.30 Composition and calculation: numbers up to 10,000,000 Multiples of 1,000 • 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 Multiplication and division • 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a recalculation, using arithmetic properties, inverse relationships, and place-value understa | l parts, arts. |
| 1.26 Composition and calculation: multiples of 1,000 up to 1,000,000 Multiplication and division 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a recalculation, using arithmetic properties, inverse relationships, and place-value understa | elated |
| 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a re calculation, using arithmetic properties, inverse relationships, and place-value understa | elated |
| 2.23 Multiplication strategies for larger numbers and long multiplication | anding. |
| 2.24 Division: dividing by two-digit divisors 2.25 Using compensation to calculate | |
| Fractions and percentages | |
| 6F–1 Recognise when fractions can be simplified, and use common factors to simplify fractions. 6F–2 Express fractions in a common denomination and use this to compare fractions. | |
| that are similar in value. 6F–3 Compare fractions with different denominators, including fractions greater than using reasoning, and choose between reasoning and common denomination as a comparison strategy. | 1, |
| 3.8 Common denomination: more adding and subtracting 3.9 Multiplying fractions and dividing fractions by a whole number 3.10 Linking fractions, decimals and percentages | |
| Area, perimeter, position and direction 2.30 Multiplicative contexts: area and perimeter 2 | |
| Solving problems with two unknowns 6 • 6AS/MD-4 Solve problems with 2 unknowns. | |
| 1.31 Problems with two unknowns Ratio and proportion | |
| 6AS/MD-3 Solve problems involving ratio relationships. | |
| 2.27 Scale factors, ratio and proportional reasoning | |
| Calculating using knowledge of structures (1) | - 4 |
| 6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, are quantify additive and multiplicative relationships (multiplicative relationships restricted | |
| 8 multiplication by a whole number). | |
| 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a re calculation, using arithmetic properties, inverse relationships, and place-value understa | |
| 1.28 Common structures and the part–part–whole relationship | |
| 1.29 Using equivalence and the compensation property to calculate Calculation using knowledge of structures (2) | |
| Calculating using knowledge of structures (2) • 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a re | elated |
| calculation, using arithmetic properties, inverse relationships, and place-value understa 1.29 Using equivalence and the compensation property to calculate | |
| Order of operations | |
| • 2.22 Combining multiplication with addition and subtraction • 2.28 Combining division with addition and subtraction | |
| Statistics | |
| This topic is part of the National Curriculum but is not included in the DfE 2020 guidan the NCETM Mastery PD Materials. Plan from White Rose Year 6 Summer | nce or |
| Draw, compose and decompose shapes | |
| • 6G–1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems | S |
| 13 Mean average • 2.26 Mean average and equal shares | |

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