

Ready to Progress

Years 1 to 6

#MathsEveryoneCan

2021-22

Introduction

Many schools are using the 'Ready to Progress' criteria produced by the DfE last year as part of their assessments of pupils' learning. This document lists the key steps in the White Rose Maths schemes of learning that support each of the 'Ready to Progress' criteria. In many cases, the criteria are also addressed in other steps and in other blocks, for example looking at addition and subtraction in the context of measures. We have not listed every single instance as this would become unwieldy. This can be used alongside our at-a-glance National Curriculum progression document to support the planning of key concepts both within and between year groups.

For each year group, the criteria for each ready-to-progress strand are listed on a single page. These are:

- Number and place value **NPV**
- Number facts **NF**
- Addition and subtraction **AS**
- Multiplication and division **MD**
- Fractions **F**
- Geometry **G**

Note that not all year groups include each strand and that in Year 6, addition, subtraction, multiplication and division are grouped together as **AS/MD**

| Ready to Progress – Number Facts Year 3 | | | |
|--|--|--|--|
| Criteria | 3NF-1 | 3NF-2 | 3NF-3 |
| Secure fluency in addition and subtraction facts that bridge 10, through continued practice. | | 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. | Apply place value knowledge to known additive and multiplicative number facts (scaling facts by 10). |
| White Rose Maths Small Steps Autumn 2 Addition and Subtraction <ul style="list-style-type: none"> • Add 3-digit and 1-digit numbers - crossing 10 • Subtract a 1-digit number from a 3-digit number - crossing 10 • Add 3-digit and 2-digit numbers - crossing 100 • Subtract a 2-digit number from a 3-digit number - crossing 100 | Autumn 3 Multiplication and Division <ul style="list-style-type: none"> • 2 times-table • 5 times-table • Divide by 2 • Divide by 5 • Divide by 10 • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table | Spring 1 Multiplication and Division <ul style="list-style-type: none"> • Related calculations • Scaling Spring 4 Measurement : Length and Perimeter <ul style="list-style-type: none"> • Equivalent lengths (m and cm) • Equivalent lengths (mm and cm) | |

Most strands are split into a number of separate criteria. For each of these, the key White Rose Maths steps are listed under the name(s) of the block(s) of learning in which the steps appear.

| | 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 | | | | Number: Multiplication and Division | | | | | |
| Spring | Number: Multiplication and Division | | Measurement: Money | Statistics | Measurement: Length and Perimeter | | Number: Fractions | | Consolidation | | | |
| Summer | Number: Fractions | | Measurement: Time | | Geometry: Properties of Shape | | Measurement: Mass and Capacity | | Consolidation | | | |

| | 3NPV-1 | 3NPV-2 | 3NPV-3 | 3NPV-4 |
|---|---|---|---|---|
| RTP Criteria | <p>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</p> | <p>Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.</p> | <p>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</p> | <p>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.</p> |
| White Rose Maths Small Steps | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • Hundreds <p>Spring 2 Money</p> <ul style="list-style-type: none"> • Convert pounds and pence | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • Numbers to 1,000 • 100s, 10s and 1s (1) • 100s, 10s and 1s (2) | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • Number line to 1,000 • Compare objects • Compare numbers • Ordering numbers <p>Spring 4 Measurement : Length and Perimeter</p> <ul style="list-style-type: none"> • Compare lengths | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • Count in 50s <p>Summer 4 Measurement : Mass and Capacity</p> <ul style="list-style-type: none"> • Measure mass (1) • Measure mass (2) • Measure capacity (1) • Measure capacity (2) • Compare capacity |

| | 3NF-1 | 3NF-2 | 3NF-3 |
|--|--|---|--|
| White Rose Maths Small Steps RTP Criteria | <p>Secure fluency in addition and subtraction facts that bridge 10, through continued practice. .</p> <p>Autumn 2 Addition and Subtraction</p> <ul style="list-style-type: none"> • Add 3-digit and 1-digit numbers - crossing 10 • Subtract a 1-digit number from a 3-digit number - crossing 10 • Add 3-digit and 2-digit numbers - crossing 100 • Subtract a 2-digit number from a 3-digit number - crossing 100 | <p>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.</p> <p>Autumn 3 Multiplication and Division</p> <ul style="list-style-type: none"> • 2 times-table • 5 times-table • Divide by 2 • Divide by 5 • Divide by 10 • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table | <p>Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).</p> <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Related calculations • Scaling <p>Spring 4 Measurement : Length and Perimeter</p> <ul style="list-style-type: none"> • Equivalent lengths (m and cm) • Equivalent lengths (mm and cm) |

| | 3AS-1 | 3AS-2 | 3AS-3 |
|---------------------------------|--|--|---|
| RTP Criteria | <p>Calculate complements to 100</p> | <p>Add and subtract up to three-digit numbers using columnar methods.</p> | <p>Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure.</p> <p>Understand and use the commutative property of addition, and understand the related property for subtraction.</p> |
| White Rose Maths Small Steps | <p>This is not explicitly covered in Year 3; if pupils need extra support then look back to Year 2 Autumn 2 Addition and Subtraction Bonds to 100 (tens and ones)</p> | <p>Autumn 2 Addition and Subtraction</p> <ul style="list-style-type: none"> • Add and subtract 100s • Spot the pattern - making it explicit • Mixed addition and subtraction problems • Add and subtract 2-digit & 3-digit numbers- not crossing 10 or 100 • Add 2-digit and 3-digit numbers - crossing 10 or 100 • Subtract a 2-digit number from a 3-digit number - crossing 10 or 100 • Add two 3-digit numbers - not crossing 10 or 100 • Add two 3-digit numbers - crossing 10 or 100 • Subtract a 3-digit number from a 3-digit number - no exchange • Subtract a 3-digit number from a 3-digit number - exchange | <p>Autumn 2 Addition and Subtraction</p> <ul style="list-style-type: none"> • Check answers <p>Spring 2 Money</p> <ul style="list-style-type: none"> • Add money • Subtract money • Give change |

| | | |
|---|---|--|
| <p>White Rose Maths Small Steps</p> | <p>3MD-1</p> <p>Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.</p> <p>Autumn 3 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 3 • Divide by 3 • The 3 times-table • Multiply by 4 • Divide by 4 • The 4 times-table • Multiply by 8 • Divide by 8 • The 8 times-table <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Comparing statements • How many ways? | |
| | | |

| | 3F-1 | 3F-2 | 3F-3 | 3F-4 |
|---|---|--|--|--|
| White Rose Maths Small Steps RTP Criteria | Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. | Find unit fractions of quantities using known division facts (multiplication tables fluency). | Reason about the location of any fraction within 1 in the linear number system. | Add and subtract fractions with the same denominator, within 1 |
| | Summer 1 Fractions <ul style="list-style-type: none"> • Making the whole • Tenths | Summer 1 Fractions <ul style="list-style-type: none"> • Fractions of a set of objects (1) • Fractions of a set of objects (2) • Fractions of a set of objects (3) | Summer 1 Fractions <ul style="list-style-type: none"> • Count in tenths • Fractions on a number line • Compare fractions • Order fractions | Summer 1 Fractions <ul style="list-style-type: none"> • Add fractions • Subtract fractions |

| | | 3G-1 | 3G-2 |
|---|---|---|--|
| White Rose Maths Small Steps RTP Criteria | 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. | Summer 3 Geometry : Properties of Shape <ul style="list-style-type: none"> • Turns and angles • Right angles in shapes • Recognise and describe 2-D shapes | Draw polygons by joining marked points, and identify parallel and perpendicular sides. |
| | | Summer 3 Geometry : Properties of Shape <ul style="list-style-type: none"> • Parallel and perpendicular • Recognise and describe 2-D shapes | |

| | 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: Multiplication and Division | Measurement: Area | Number: Addition and Subtraction | | | Measurement: Length and Perimeter | Number: Multiplication and Division | | |
| Spring | Number: Multiplication and Division | | | | | Number: Fractions | | | Number: Decimals | | | Consolidation |
| Summer | Number: Decimals | | Measurement: Money | | Measurement: Time | | Statistics | Geometry: Properties of Shape | | Geometry: Position and Direction | | Consolidation |

| | 4NPV-1 | 4NPV-2 | 4NPV-3 | 4NPV-4 |
|---|--|--|--|---|
| RTP Criteria | <p>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.</p> | <p>Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning.</p> | <p>Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each</p> | <p>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.</p> |
| White Rose Maths Small Steps | <p>Autumn 4 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 10 • Multiply by 100 • Divide by 10 • Divide by 100 | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • 1000s, 100s, 10s and 1s • Partitioning | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> • Round to the nearest 100 • The number line to 10,000 • 1,000 more or less • Compare 4-digit numbers • Order numbers • Round to the nearest 1,000 | <p>This should be addressed when looking at charts in Summer 4 Statistics or Spring 1 Multiplication and Division</p> |

| | 4NF-1 | 4NF-2 | 4NF-3 |
|---|---|---|--|
| White Rose Maths Small Steps RTP Criteria | Recall multiplication and division facts up to 12×12 and recognise products in multiplication tables as multiples of the corresponding number. | Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context. | Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100) |
| | <p>Autumn 3 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 10 • Divide by 10 • Multiply and divide by 6 • 6 times-table and division facts • The 3 times-table • Multiply and divide by 9 • 9 times-table and division facts • Multiply and divide by 7 • 7 times-table and division facts <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • 11 and 12 times-table • Multiply 3 numbers • Factor pairs | <p>Autumn 3 Multiplication and Division</p> <ul style="list-style-type: none"> • Divide 2-digits by 1 digit (1) • Divide 2-digits by 1 digit (2) | These strategies are built in within Autumn 2 Addition and Subtraction, Autumn 4 Multiplication and Division and Spring 1 Multiplication and Division rather than dealt with as separate steps |

| RTP Criteria | 4MD-1 | 4MD-2 | 4MD-3 |
|--|--|---|---|
| <p>White Rose Maths</p> <p>Small Steps</p> | <p>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.</p> <p>Autumn 4 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 10 • Multiply by 100 • Divide by 10 • Divide by 100 | <p>Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication.</p> <p>Autumn 3 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 10 • Divide by 10 • Multiply and divide by 6 • 6 times-table and division facts • The 3 times-table • Multiply and divide by 9 • 9 times-table and division facts • Multiply and divide by 7 • 7 times-table and division facts <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • 11 and 12 times-table • Multiply 3 numbers • Factor pairs | <p>Understand and apply the distributive property of multiplication.</p> <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Efficient multiplication • Written methods |

| | 4F-1 | 4F-2 | 4F-3 |
|---|--|--|---|
| RTP Criteria | <p>Reason about the location of mixed numbers in the linear number system.</p> <p>Spring 3 Fractions</p> <ul style="list-style-type: none"> • Count in fractions • Fractions greater than 1 | <p>Convert mixed numbers to improper fractions and vice versa.</p> <p>Spring 3 Fractions</p> <ul style="list-style-type: none"> • Count in fractions • Fractions greater than 1 | <p>Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.</p> <p>Spring 3 Fractions</p> <ul style="list-style-type: none"> • Add 2 or more fractions • Subtract 2 fractions • Subtract from whole amounts |
| White Rose Maths Small Steps | | | |

| | | 4G-1 | 4G-2 | 4G-3 |
|--|--------------|---|---|---|
| <p>White Rose Maths</p> <p>Small Steps</p> | RTP Criteria | <p>Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.</p> | <p>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.</p> | <p>Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry.</p> |
| | | <p>Summer 6 Geometry : Position & Direction</p> <ul style="list-style-type: none"> Describe position Draw on a grid Move on a grid Describe movement on a grid | <p>Autumn 3 Measurement : Length and Perimeter</p> <ul style="list-style-type: none"> Measure perimeter Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes <p>Summer 5 Geometry : Properties of Shape</p> <ul style="list-style-type: none"> Triangles Quadrilaterals | <p>Summer 5 Geometry : Properties of Shape</p> <ul style="list-style-type: none"> Lines of symmetry Complete a symmetric figure |

| | 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 | |

| RTP Criteria | 5NPV-1 | 5NPV-2 | 5NPV-3 | 5NPV-4 | 5NPV-5 |
|--|--|--|---|---|---|
| <p>White Rose Maths</p> <p>Small Steps</p> | <p>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</p> | <p>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.</p> | <p>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.</p> | <p>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.</p> | <p>Convert between units of measure, including using common decimals and fractions.</p> |
| | <p>Spring 3 Decimals and Percentages</p> <ul style="list-style-type: none"> Understand thousandths Thousandths as decimals | <p>Spring 3 Decimals and Percentages</p> <ul style="list-style-type: none"> Decimals up to 2 d.p. | <p>Spring 3 Decimals and Percentages</p> <ul style="list-style-type: none"> Rounding decimals Order and compare decimals | <p>This should be addressed when looking at charts in Autumn 3 Statistics</p> | <p>Spring 3 Decimals and Percentages</p> <ul style="list-style-type: none"> Decimals as fractions (1) Decimals as fractions (2) <p>Summer 4 Measurement : Converting Units</p> <ul style="list-style-type: none"> Kilograms and kilometres Millimetres and millilitres Metric units Imperial units Converting units of time Timetables |

| | | 5NF-1 | 5NF-2 |
|---|---|---|-------|
| White Rose Maths Small Steps RTP Criteria | Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. | Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth). | |
| | <p>Autumn 4 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiples • Factors • Common factors • Prime numbers • Square numbers <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply 2-digits by 1-digit • Multiply 3-digits by 1-digit • 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 3-digits by 1-digit • Divide 3-digits by 1-digit • Divide 3-digits by 1-digit | These strategies are built in within Spring 3 Decimals and Percentages and Summer 1 Decimals rather than dealt with as separate steps | |

| RTP Criteria | 5MD-1 | 5MD-2 | 5MD-3 | 5MD-4 |
|---------------------------------|--|---|---|---|
| White Rose Maths Small Steps | <p>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.</p> <p>Autumn 4 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000 <p>Summer 1 Decimals</p> <ul style="list-style-type: none"> • Multiplying decimals by 10, 100 and 1,000 • Dividing decimals by 10, 100 and 1,000 | <p>Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.</p> <p>Autumn 4 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiples • Factors • Common factors • Prime numbers • Square numbers | <p>Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.</p> <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Multiply 4-digits by 1-digit | <p>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.</p> <p>Spring 1 Multiplication and Division</p> <ul style="list-style-type: none"> • Divide 4-digits by 1-digit • Divide with remainders |

| | 5F-1 | 5F-2 | 5F-3 |
|---------------------------------|--|---|--|
| RTP Criteria | Find non-unit fractions of quantities. | Find equivalent fractions and understand that they have the same value and the same position in the linear number system. | Recall decimal fraction equivalents for $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{5}$ and $\frac{1}{10}$ and for multiples of these proper fractions. |
| White Rose Maths Small Steps | <p>Spring 2 Fractions</p> <ul style="list-style-type: none"> • Fraction of an amount • Using fractions as operators | <p>Spring 2 Fractions</p> <ul style="list-style-type: none"> • Equivalent fractions • Compare fractions less than 1 • Order fractions less than 1 | <p>Spring 3 Decimals and Percentages</p> <ul style="list-style-type: none"> • Decimals as fractions (1) • Decimals as fractions (2) • Equivalent FDP |

| | | 5G-1 | 5G-2 |
|---|--|--|--|
| White Rose Maths Small Steps RTP Criteria | Compare angles, estimate and measure angles in degrees ($^{\circ}$) and draw angles of a given size. | <p>Summer 2 Geometry : Properties of Shape</p> <ul style="list-style-type: none"> • Measuring angles in degrees • Measuring with a protractor (1) • Measuring with a protractor (2) • Drawing lines and angles accurately | Compare areas and calculate the area of rectangles (including squares) using standard units. |
| | Compare areas and calculate the area of rectangles (including squares) using standard units. | <p>Autumn 5 Measurement : Perimeter and Area</p> <ul style="list-style-type: none"> • Area of rectangles • Area of compound shapes • Area of irregular shapes | |

| | 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, Subtraction, Multiplication and Division | | | | Number: Fractions | | | | | | Geometry: Position and Direction |
| Spring | Number: Decimals | | Number: Percentages | | Number: Algebra | | Measurement: Converting Units | Measurement: Perimeter, Area and Volume | | Number: Ratio | | | Statistics |
| Summer | Geometry: Properties of Shape | | | Consolidation or SATs preparation | | | Consolidation, investigations and preparations for KS3 | | | | | | |

| | 6NPV-1 | 6NPV-2 | 6NPV-3 | 6NPV-4 |
|-------------------------------------|--|---|--|--|
| RTP Criteria | <p>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).</p> | <p>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 standard and non-standard partitioning.</p> | <p>Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.</p> | <p>Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.</p> |
| White Rose Maths Small Steps | <p>Spring 1 Decimals</p> <ul style="list-style-type: none"> Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 <p>Spring 4 Measurement : Converting Units</p> <ul style="list-style-type: none"> Convert metric measures | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> Numbers to 10 million <p>Spring 1 Decimals</p> <ul style="list-style-type: none"> Three decimal places | <p>Autumn 1 Place Value</p> <ul style="list-style-type: none"> Compare and order any number Round any number Negative numbers | <p>Reading scales is embedded in context rather than taught as separate steps, for example in Year 6 Summer 1 Statistics and throughout Measurement blocks in all year groups,</p> |

| RTP Criteria | 6AS/MD-1 | 6AS/MD-2 | 6AS/MD-3 | 6AS/MD-4 |
|--|---|---|--|---|
| <p>White Rose Maths</p> <p>Small Steps</p> | <p>Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).</p> | <p>Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.</p> | <p>Solve problems involving ratio relationships.</p> | <p>Solve problems with 2 unknowns.</p> |
| | <p>This is addressed within Autumn 2 Addition, Subtraction, Multiplication and Division where pupils observe relationships and choose appropriate strategies.</p> | <p>Autumn 2 Addition, Subtraction, Multiplication and Division</p> <ul style="list-style-type: none"> Reason from known facts | <p>Spring 6 Ratio</p> <ul style="list-style-type: none"> Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems | <p>Spring 3 Algebra</p> <ul style="list-style-type: none"> Find pairs of values (1) Find pairs of values (2) |

| | 6F-1 | 6F-2 | 6F-3 |
|-------------------------------------|--|--|---|
| RTP Criteria | <p>Recognise when fractions can be simplified, and use common factors to simplify fractions.</p> | <p>Express fractions in a common denomination and use this to compare fractions that are similar in value.</p> | <p>Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.</p> |
| White Rose Maths Small Steps | <p>Autumn 3 Fractions</p> <ul style="list-style-type: none"> • Equivalent fractions • Simplify fractions • Four rules with fractions | <p>Autumn 3 Fractions</p> <ul style="list-style-type: none"> • Fractions on a number line • Compare and order (denominator) • Add fractions • Subtract fractions • Mixed addition and subtraction • Four rules with fractions | <p>Autumn 3 Fractions</p> <ul style="list-style-type: none"> • Fractions on a number line • Compare and order (denominator) • Compare and order (numerator) |

| 6G-1 | | |
|---|--|--|
| <p>White Rose Maths Small Steps</p> | <p>RTP Criteria</p> <p>Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.</p> <p>Summer 2 Geometry : Properties of Shape</p> <ul style="list-style-type: none"> • Draw shapes accurately • Draw nets of 3-D shapes <p>The White Rose schemes follow the National Curriculum and address area within Year 5 Autumn 5 Measurement : Perimeter and Area</p> | |