# Year 3
# Long Term Plan
## 2022 -2023

| | 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 A** | | | |
| Spring | Number **Multiplication and Division B** | | | Measurement **Length and Perimeter** | | | Number **Fractions A** | | | Measurement **Mass and Capacity** | | |
| Summer | Number **Fractions B** | | Measurement **Money** | Measurement **Time** | | | Geometry **Shape** | | Measurement **Statistics** | | | Consolidation |

Our maths scheme for Year 1 - 6 follows our own progression based upon the White Rose Maths overview. Learning is built upon progressively and appropriately for the children's level of experience and readiness to progress. Although a guide for content duration is made, teachers regularly use their own professional judgement to extend, shorten and adapt learning within a unit. Due to this, flexibility is accepted for our maths teaching. Teachers can use additional time throughout the year to revise and recap key learning such as number and place value as well as an emphasis on the use of four operations to ensure these skills are regularly used discreetly as well as within contexts.

Our overviews follow the objectives outlined in the White Rose units and are enhanced through the careful consideration of NCETM resources to ensure our children have opportunity to gain a deeper understanding of the learning taking place. Where NCETM links are not available, teachers are able to use professional judgement on any linked NCETM spines as well as enhancing White Rose learning with additional resources. Children are exposed to learning through collaborative learning lessons, practical lessons, and independent learning.

Sentence stems are used in all units to embed language and vocabulary as well as the tools for children to express their knowledge in problem solving and reasoning. Out of year group White Rose links ensure teachers are clear with previous learning as well as future learning.

# AUTUMN

## Number: Place Value

### NEW VOCABULARY

numbers to one thousand; 3-digit; thousand; ascending, descending

| White Rose Objective | NCETM link |
| --- | --- |
| **Represent numbers to 100** | 1.18 – Teaching point 1 |
| **Partition numbers to 100** | 1.18 – Teaching point 1 |
| **Number line to 100** | |
| **Hundreds** | 1.17 – Teaching point 1 |
| **Represent numbers to 1,000** | 1.17 – Teaching point 1 |
| **Partition number to 1,000** | |
| **Flexible partitioning of numbers to 1,000** | |
| **Hundreds, tens and ones** | 1.18 – Teaching point 1 |
| **Find 1, 10 or 100 more or less** | 1.18 – Teaching point 3 |
| **Number line to 1,000** | 1.18 – Teaching point 2 |
| **Estimate on a number line to 1,000** | |
| **Compare numbers to 1,000** | 1.18 – Teaching point 4 |
| **Order numbers to 1,000** | 1.18 – Teaching point 4 |
| **Count in 50s** | 1.17 – Teaching point 1 |

# AUTUMN

## Addition & Subtraction

### NEW VOCABULARY

**column, column addition and subtraction; regroup; efficient; estimate**

| White Rose Objective | NCETM link |
|---|---|
| **Apply number bonds within 10** | |
| **Add and subtract 1s** | 1.19 – Teaching point 1 |
| **Add and subtract 10s** | 1.19 – Teaching point 1 |
| **Add and subtract 100s** | 1.19 – Teaching point 1 |
| **Spot the pattern** | 1.20 – Teaching point 1 |
| **Add 1s across a 10** | 1.19 – Teaching point 1 |
| **Add 10s across a 100** | 1.19 – Teaching point 1 |
| **Subtract 1s across a 10** | 1.19 – Teaching point 1 |
| **Subtract 10s across a 100** | 1.19 – Teaching point 1 |
| **Make connections** | |
| **Add two numbers (no exchange)** | 1.19 – Teaching point 1 |
| **Subtract two numbers (no exchange)** | 1.19 – Teaching point 1 |
| **Add to numbers (across a 10)** | 1.19 – Teaching point 1 |
| **Add two numbers (across a 100)** | 1.19 – Teaching point 1 |
| **Subtract two numbers (across a 10)** | 1.19 – Teaching point 1 |
| **Subtract two numbers (across a 100)** | 1.19 – Teaching point 1 |
| **Add 2-digit and 3-digit numbers** | 1.19 – Teaching point 2 & 3<br><br>1.20 – Teaching point 2<br><br>1.20 – Teaching point 4<br><br>1.21 – Teaching point 1 |

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|---|---|
| **Subtract a 2-digit number from a 3-digit number** | 1.19 – Teaching point 2 & 3 |
| | 1.20 – Teaching point 2 |
| | 1.20 – Teaching point 4 |
| | 1.21 – Teaching point 1 |
| **Complements to 100** | |
| **Estimate answers** | 1.21 – Teaching point 1 |
| **Inverse operations** | |
| **Make decisions** | |

## AUTUMN

### Multiplication and Division A

NEW VOCABULARY

**fours, eights; remainder; divisor, dividend, quotient**

| White Rose Objective | NCETM link |
|---|---|
| **Multiplication – equal groups** | |
| **Use arrays** | |
| **Multiples of 2** | |
| **Multiples of 5 and 10** | |
| **Sharing and grouping** | |
| **Multiply by 3** | 2.8 – Teaching point 1 |
| **Divide by 3** | 2.8 – Teaching point 1 |
| **The 3-times table** | 2.8 – Teaching point 1 |
| **Multiply by 4** | 2.7 – Teaching point 2 |
| **Divide by 4** | 2.7 – Teaching point 2 |
| **The 4 times-table** | 2.7 – Teaching point 2 |

| | |
|---|---|
| **Multiply by 8** | 2.7 – Teaching point 4 |
| **Divide by 8** | 2.7 – Teaching point 4 |
| **The 8 times-table** | 2.7 – Teaching point 4 |
| **The 2, 4 and 8 times-table** | 2.7 – Teaching point 2 |

## SPRING

### Multiplication and Division B

### NEW VOCABULARY

**fours, eights; remainder; divisor, dividend, quotient**

| White Rose Objective | NCETM link |
|---|---|
| **Comparing statements** | 2.7 – Teaching point 5 |
| **Related calculations** | 2.7 – Teaching point 5 |
| **Multiply 2-digit by 1-digit (1)** | |
| **Multiply 2-digit by 1-digit (2)** | |
| **Divide 2-digits by 1-digit (1)** | |
| **Divide 2-digits by 1-digit (2)** | |
| **Divide 2-digits by 1-digit (3)** | |
| **Scaling** | 2.8 – Teaching point 1<br><br>2.8 – Teaching point 3<br><br>2.8 – Teaching point 5<br><br>2.7 – Teaching point 4<br><br>2.7 – Teaching point 5 |
| **How many ways?** | |

# SPRING

## Length and Perimeter

### NEW VOCABULARY

mm; perimeter

| White Rose Objective | NCETM link |
|---|---|
| **Measure length** | 1.18 – Teaching point 6 |
| **Equivalent lengths – m & cm** | 1.18 – Teaching point 6 |
| **Equivalent lengths – mm & cm** | 1.18 – Teaching point 6 |
| **Compare lengths** | 1.18 – Teaching point 4 |
| **Add lengths** | |
| **Subtract lengths** | |
| **Measure perimeter** | |
| **Calculate perimeter** | |

# SPRING

## Fractions A

### NEW VOCABULARY

non-unit fraction; tenths, two tenths, three tenths etc; two thirds; fifth, sixth, ninth

| White Rose Objective | NCETM link |
|---|---|
| **Make equal parts** | |
| **Recognise a half** | |
| **Find a half** | |
| **Recognise a quarter** | |
| **Find a quarter** | |

| | |
|---|---|
| **Recognise a third** | |
| **Find a third** | |
| **Unit fractions** | 3.2 – Teaching point 3 |
| **Non-unit fractions** | 3.2 – Teaching point 3 |
| **Equivalence of ½ and 2/4** | |
| **Count in fractions** | |

## SPRING

### Mass and Capacity

NEW VOCABULARY

| White Rose Objective | NCETM link |
|---|---|
| **Measure mass (1)** | 1.18 – Teaching point 6 |
| **Measure mass (2)** | 1.18 – Teaching point 6 |
| **Compare mass** | 1.18 – Teaching point 4 |
| **Add and subtract mass** | |
| **Measure capacity (1)** | 1.18 – Teaching point 6 |
| **Measure capacity (2)** | 1.18 – Teaching point 6 |
| **Compare capacity** | 1.18 – Teaching point 4 |
| **Add and subtract capacity** | |

## SUMMER

### Fractions B

NEW VOCABULARY

| | |
|---|---|
| **non-unit fraction; tenths, two tenths, three tenths etc; two thirds; fifth, sixth, ninth; decimal, decimal point** | |
| **White Rose Objective** | **NCETM link** |
| **Making the whole** | 3.1 – Teaching point 2 |
| **Tenths** | |
| **Count in tenths** | |
| **Tenths as decimals** | |
| **Fractions on a number line** | |
| **Fractions of a set of objects (1)** | |
| **Fractions of a set of objects (2)** | |
| **Fractions of a set of objects (3)** | |
| **Equivalent fractions (1)** | |
| **Equivalent fractions (2)** | |
| **Equivalent fraction (3)** | |
| **Compare fractions** | |
| **Order fractions** | 3.4 – Teaching point 1 |
| **Add fractions** | |
| **Subtract fractions** | 3.4 – Teaching point 2 |

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| **SUMMER** |
| **Money** |
| NEW VOCABULARY |

| **White Rose Objective** | **NCETM link** |
|---|---|
| **Pounds and pence** | |
| **Convert pounds and pence** | |

| | |
|---|---|
| **Add money** | |
| **Subtract money** | |
| **Give change** | |

# SUMMER

## Time

### NEW VOCABULARY

**leap year; minutes past/to; a.m., p.m.; analogue, digital;   twelve-hour /twenty-four- hour clock; Roman numerals I to XIII.**

| White Rose Objective | NCETM link |
|---|---|
| **Months and years** | |
| **Hours in a day** | |
| **Telling the time to 5 minutes** | |
| **Telling the time to the minute** | |
| **Using a.m and p.m** | |
| **24-hour clock** | |
| **Finding the duration** | |
| **Comparing durations** | |
| **Start and end times** | |
| **Measuring time in seconds** | |

# SUMMER

## Shape

# SUMMER

## Statistics

| NEW VOCABULARY | |
|---|---|
| chart, bar chart; frequency table, Carroll diagram, diagram | |
| **White Rose Objective** | **NCETM link** |
| **Pictograms** | |
| **Bar charts** | |
| **Tables** | |