## Year 2 Long Term Plan 2022-2023



Our maths scheme for Year 1-6 follows our own carefully curated progression. 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.



|  | 1.16 - Teaching point 2 |
| :--- | :--- |
| Mixed addition and subtraction |  |
| Compare number sentences | 1.12 - Teaching point 1 |
| Missing number problems |  |


| Shape |  |
| :--- | :--- |
| NEW VOCABULARY |  |
| pentagon, hexagon, octagon, quadrilateral; prism; vertices, vertex; rotate; symmetry, symmetrical, |  |
| line of symmetry; horizontal, vertical; fold; pattern, repeating pattern. |  |
| White Rose Objective |  |
| Recognise 2D and 3D shapes |  |
| Count sides on 2d shapes |  |
| Count vertices on 2D shapes |  |
| Draw 2D shapes |  |
| Lines of symmetry on shapes |  |
| Use lines of symmetry to complete shapes |  |
| Sort 2D shapes |  |
| Count faces on 3D shapes |  |
| Count edges on 3D shapes |  |
| Count vertices on 3D shapes |  |
| 3D shapes |  |


| Money |  |
| :--- | :--- |
| WOCABULARY |  |
| White Rose Objective |  |
| change |  |$\quad$| NCETM link |
| :--- |
| Count money - pence |
| Count money - pounds (notes and coins) |
| Count money - notes and coins |
| Make the same amount |
| Compare money |
| Find the total |
| Find the difference |
| Find the change |
| Two-step problems |

## SPRING <br> Multiplication and Division

## NEW VOCABULARY

times-table; facts; multiples; repeated addition; lots of; of; multiply; multiplied by; times; commutative; twos, fives, tens, threes; array; go into; divide, divide between, division, dividing; grouping, sharing

| White Rose Objective | NCETM link |
| :--- | :--- |
| Recognise equal groups | 2.2 - Teaching point 1 |
| Make equal groups | 2.2 - Teaching point 2 |


| Add equal groups | 2.2 - Teaching point 3 |
| :--- | :--- |
| Multiplication sentences using the x symbol | 2.2 - Teaching point 4 |
| Multiplication sentences from pictures | 2.2 - Teaching point 4 |
| Use arrays | 2.3 - Teaching point 1 |
| 2 times-table | 2.3 - Teaching point 2 |
| $\mathbf{5}$ times-table | 2.4 - Teaching point 3 |
| 10 times-table | 2.4 - Teaching point 1 |
| Make equal groups - sharing | 2.6 - Teaching point 3 |
| Make equal groups - grouping | 2.6 - Teaching point 2 |
| Divide by 2 | 2.6 - Teaching point 4 |
| Odd \& even numbers | 2.6 - Teaching point 4 |
| Divide by 5 | 2.6 - Teaching point 4 |
| Divide by 10 |  |


| SPRTNG |  |
| :--- | :--- |
| Length and Height <br> NEW VOCABULARY <br> distance; metres |  |
| White Rose Objective |  |
| Measure length (cm) |  |
| Measure length (m) |  |
| Compare lengths |  |
| Order lengths |  |
| Four operations with lengths |  |


| SPRTNG |  |
| :--- | :--- |
| Mass, Capacity and Temperature |  |
| g/kg; ml/l; temperature, thermometer, degrees Celsius, increase, decrease, warmer, colder |  |
| White Rose Objective |  |
| Compare mass |  |
| Measure mass in grams |  |
| Measure mass in kilograms link |  |
| Compare volume |  |
| Millilitres |  |
| Litres |  |
| Temperature |  |


| SUATIStics |  |
| :--- | :--- |
| NEW VOCABULARY |  |
| count, tally, tally chart, table; data, represent, sort; pictogram, symbol; block diagram, axis; label, |  |
| title, scale; most popular, most common, least popular, least common |  |

## Block diagrams

| Fractions |  |
| :--- | :--- |
| NEW VOCABULARY |  |
| two quarters, three quarters, one third, two thirds; unit fraction, numerator, denominator, |  |
| vinculum; equivalence, equivalent |  |


| SUMMER |
| :---: |
| Position and Direction |
| NEW VOCABULARY |


| direction, forwards, backwards; right angle; rotation, clockwise, anticlockwise |  |
| :--- | :--- |
| White Rose Objective |  |
| Describe movement |  |
| Describe turns |  |
| Describe movement and turns |  |
| Making patterns with shapes |  |


| SUME |  |
| :--- | :--- |
| NEW VOCABULARY |  |
| quarter past/to, $\mathbf{5}$ past, $\mathbf{1 0}$ past, twenty to etc, start, duration, end, interval, how long...? When did |  |
| it start /end /finish...?, seconds; |  |
| White Rose Objective |  |
| O'clock and half past |  |
| Quarter past and quarter to |  |
| Telling time to 5 minutes |  |
| Hours and days |  |
| Find durations of time |  |
| Compare durations of time |  |

