**St Mary’s Year 4 Maths overview**

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| **MNP** | **NCETM Spine Materials (subject knowledge development)** | **Additional resources to support understanding** | | | |
| [**Yr4 NCETM assessment materials**](file:///C:\Users\scains\AppData\Local\Microsoft\Windows\INetCache\IE\FBSNOG0P\Mastery_Assessment_Y4_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Numbers to 10, 000**  - Counting in hundreds and twenty-five  - Counting in thousands  - Counting in thousands, hundreds, tens and ones  - Using place value  - Comparing and ordering numbers  - Making number patterns  - Counting in sixes, sevens and nines  - Rounding numbers  - Rounding numbers to estimate | **1.22: TP 1.1-1.8, 2.1-2.9**  **1.22: TP 3.1- 3.8**  **1.22: TP 4.1- 4.13** | **P9-11** | Which answer? P6  Different ways, p7  How many ways, p8  Number lines, p10  Investigate, p14  Explain the mistakes, p20  I know…so…p20  Which answer, p21  How many ways, p21  Explain, p22,23  Fill the gaps, p22  Race to 500, p23 | [What distance?](https://nrich.maths.org/13267)  [Nice or Nasty](https://nrich.maths.org/6605)  [Dicey Operations](https://nrich.maths.org/13261)  [The Deca Tree](https://nrich.maths.org/2006)  [Four-digit Targets](https://nrich.maths.org/6342)  [Ordering journeys](https://nrich.maths.org/13268)  [Representing numbers](https://nrich.maths.org/13272)  [Reasoned rounding](https://nrich.maths.org/10945) | [Place Value](https://whiterosemaths.com/wp-content/uploads/2020/07/Year-4-Block-1-Place-Value.pdf) |
| **Addition and subtraction within 10,000**  - Finding sums  - Adding without renaming  - Adding with renaming  - Adding using mental strategies  - Finding differences  - Subtracting without renaming  - Subtracting with renaming  - Subtracting using mental strategies  - Solving word problems | **1.22: TP 5.1- 5.6** | **P12-14** | Mental or written, p28  Missing digits, p31  How many ways, p32  Rank by difficulty, p34  Fill the gaps, p43  How many ways? P45 | [Fifteen Cards](https://nrich.maths.org/7506)  [Money Bags](https://nrich.maths.org/1116)  [Amy’s Dominoes](https://nrich.maths.org/1044)  [Sealed Solution](https://nrich.maths.org/1177)  [Roll These Dice](https://nrich.maths.org/53) | [Addition and subtraction](https://whiterosemaths.com/wp-content/uploads/2020/07/Year-4-Block-2-Addition-and-Subtraction.pdf) |
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| [**Yr4 NCETM assessment materials**](file:///C:\Users\scains\AppData\Local\Microsoft\Windows\INetCache\IE\FBSNOG0P\Mastery_Assessment_Y4_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Multiplication and division**  - Multiplying by 6  - Multiplying by 7  - Multiplying by 9  - Multiplying by 11  - Multiplying by 12  - Dividing by 6  - Dividing by 7  - Dividing by 9  - Multiplying and dividing by 11 and 12  - Dividing with remainder  - Solving word problems | **2.10: TP 1.1- 1.8, 2.1-2.10, 3.1-3.3**  **2.11: TP 1.1- 1.9**  **2.11: TP 2.1-2.8, 3.1- 3.2**  **2.11: TP 4.1-4.3**  **2.12: TP 1.1-1.8, 2.1-2.6, 3.1-3.5** | **P15-17** | I know…so… p47, 48  Is it the same? P51  Matching number sentences, p52  Which one’s correct? P53  Missing digits, p55  How many ways, p55  Explore, p56, 57  Different ways, p59  I know…so…p59,60  Different ways, p60  Explain, p61  Rank by difficulty, p62  Is it the same? P62  Different methods, p63  Which one’s correct? P64  Investigate, p67  How many ways, p67  Different ways, p68  Explain the mistakes, p69  Which answer? P69  How many ways? P70,71  Which picture, p73  Fill the gaps, p74 | [Multiplication Square Jigsaw](https://nrich.maths.org/5573)  [Shape Times Shape](https://nrich.maths.org/5714)  [Let Us Divide!](https://nrich.maths.org/8308)  [Carrying Cards](https://nrich.maths.org/2726)  [Light the Lights Again](https://nrich.maths.org/7035)  [Multiples Grid](https://nrich.maths.org/5429)  [Zios and Zepts](https://nrich.maths.org/1005)  [Times Tables Shifts](https://nrich.maths.org/6863)  [Table Patterns Go Wild!](https://nrich.maths.org/6924) | [Multiplication and division](https://whiterosemaths.com/wp-content/uploads/2020/07/Year-4-Block-4-Multiplication-and-division.pdf) |
| **Further multiplication and Division**  - Multiplying by 0 and 1  - Dividing by 1  - Multiplying the same 2 numbers  - Multiplying three numbers  - Multiplying multiples of 10  - Multiplying 2-digit numbers  - Multiplying multiples of 100  - Multiplying 3-digit numbers  - Dividing 2-digit numbers  - Dividing 3-digit numbers  - Solving word problems | **2.13: TP 1.1-1.9, 6.1-6.7**  **2.14: TP 1.1- 1.6, 2.1-2.15**  **2.13: TP 3.1-3.8, 5.1-5.7, 7.1-7.8**  **2.14: TP 3.1- 3.4, 4.1- 4.7**  **2.15: TP 1.1- 1.7, 2.1-2.10**  **2.15: TP 3.1- 3.4, 4.1-4.11** | **P15-17** |  | [Multiplication and division](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Year-4-2018-19-Spring-Term-Block-1-FINAL.pdf) |
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| [**Yr4 NCETM assessment materials**](file:///C:\Users\scains\AppData\Local\Microsoft\Windows\INetCache\IE\FBSNOG0P\Mastery_Assessment_Y4_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Graphs**  - Drawing and reading picture graphs  - Drawing and reading bar graphs  - Drawing and reading line graphs | **1.22: TP 6.1- 6.5** | **P27-29** | Mark the work, p122  Explain, p123  Which graph? P123  Explain, p125  Explore, p126  Read the graphs, p127 | [Venn Diagrams](https://nrich.maths.org/6290)  [More Carroll Diagrams](https://nrich.maths.org/13211)  [Plant](https://nrich.maths.org/36) | [Statistics](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/06/Year-4-2018-19-Summer-Block-4-Statistics.pdf) |
| **Fractions**  - Counting in hundredths  - Writing mixed numbers  - Showing mixed numbers on a number line  - Finding equivalent fractions  - Simplifying mixed numbers  - Simplifying improper fractions  - Adding fractions  - Subtracting fractions  - Solving word problems | **1.24: TP 1.1-1.4, 3.1- 3.8, 6.1-6.7, 7.1-7.3**  **3.5: TP 1.1-1.5, 4.1- 4.8, 5.1- 5.17**  **3.5: TP 2.1-2.11, 3.1-3.7**  **3.5: TP 6.1-6.12**  **3.6: TP 1.1-1.18, 2.1-2.6**  **3.6: TP 3.1-3.12, 4.1-4.8, 5.1-5.12** | **P18-21** | Spot the patterns, p78  Read the pictures, p79  Draw, p79  Read the pictures, p80  Draw, p81  Which picture, p83  I know…so…p83, 84  3 ways, p84  Two ways, p87  How many ways, p88 | [Fractional Wall](https://nrich.maths.org/4519)  [Fractional Triangles](https://nrich.maths.org/2124)  [Bryony’s Triangle](https://nrich.maths.org/7392)  [Andy’s Marbles](https://nrich.maths.org/2421)  [Fractions in a Box](https://nrich.maths.org/1103)  [Chocolate](https://nrich.maths.org/34) | [Fractions](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Spring-Year-4-2018-19-Block-3-FINAL.pdf) |
| **Time**  - Telling time on a 24-hour clock  - Changing the time in minutes to seconds  - Changing time in hours to minutes  - Solving problems on duration of time  - Changing years to months and weeks and days  - Solving word problems | **1.24 TP: 5.9** | **P22-24** | Order, p103 |  | [Measurement: Time](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/05/Year-4-2018-19-Summer-Block-3-Time.pdf) |
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| **Decimals**  - Writing tenths  - Writing hundredths  - Writing decimals  - Comparing and ordering decimals  - Making number patterns  - Rounding numbers  - Rounding decimals  - Writing fractions as decimals  - Dividing whole numbers by 10  - Dividing whole numbers by 100 | **1.23: TP 1.1-1.3, 2.1-2.4, 3.1-3.13, 4.1-4.5, 5.1-5.7, 6.1-6.6**  **1.24: TP 2.1-2.5, 4.1-4.4**  **2.13: TP 2.1- 2.8, 6.1-6.7**  **2.13: TP 4.1-4.8, 5.1-5.7, 7.1-7.8** | **P18-21** | Explain the mistakes, p89  Missing numbers, p89  Missing numbers, p90  True or false, p90  Which picture? P91  I know…so…p91  Agree or disagree? P92  Is it the same? P92  Different ways, p93  Two ways, p93 | [Round the Dice Decimals 1](https://nrich.maths.org/10438) | [Decimals](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/SOL-Year-4-2018-19-Spring-Term-Block-4-FINAL.pdf)  [Decimals](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Summer_Term_SOL/Year-4-2018-19-Summer-Block-1-Decimals.pdf) |
| **Money**  - Writing amounts of money  - Comparing amounts of money  - Rounding amounts of money  - Solving problems involving money  - Estimating amounts of money | **1.25 TP 1.1- 1.8**  **1.25 TP 2.1-2.5, 3.1-3.3, 4.1-4.6, 5.1-5.3** | **P22-24** | Which answer? P97  Different answers, p98  Which picture? p100 |  | [Measurement: Money](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Summer_Term_SOL/Year-4-2018-19-Summer-Block-2-Money.pdf) |
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| **Mass, Volume and length**  - Measuring mass  - Converting units of mass  - Measuring volume  - Converting units of volume  - Measuring height  - Converting units of length  - Measuring perimeters in different units  - Solving problems involving scale | **1.24 TP: 5.1-5.8**  **2.17: TP 3.1- 3.3**  **2.17: TP 3.1-3.3**  **2.17: TP 1.1- 1.7, 2.1-2.6**  **2.16: TP 1.1- 1.4, 2.1-2.4, 3.1-3.9** | **P22-24** | True or false, p94  Which answer, p95  Explain, p96  Explore, p96  Explain, p106 |  | [Measurement: Length and perimeter](https://whiterosemaths.com/wp-content/uploads/2020/07/Year-4-Block-3-Length-and-perimeter.pdf) |
| **Area of figures**  - Measuring the surface that an object covers  - Measuring area | **2.16: TP 4.1-4.7, 5.1-5.5, 6.1-6.9** |  | More blue or red? p107  Read the picture, p108  Explore, p110 | [Torn Shapes](https://nrich.maths.org/4963)  [Twice as Big?](https://nrich.maths.org/5561) | [Measurement: Area](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/01/Year-4-2018-19-Spring-Term-Block-2-FINAL.pdf) |
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| [**Yr4 NCETM assessment materials**](file:///C:\Users\scains\AppData\Local\Microsoft\Windows\INetCache\IE\FBSNOG0P\Mastery_Assessment_Y4_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Geometry**  - Knowing types of angles  - Comparing angles  - Classifying triangles  - Classifying quadrilaterals  - Identifying symmetrical figures  - Drawing lines of symmetry  - Completing symmetrical figures  - Making symmetrical figures  - Sorting shapes |  | **P25-26** | Is it correct? P114  Order, p115  Explain the mistakes, p118 | [Sorting Logic Blocks](https://nrich.maths.org/7192)  [What Shape?](https://nrich.maths.org/6986)  [Shapes on the Playground](https://nrich.maths.org/1054)  [Nine-pin Triangles](https://nrich.maths.org/2852)  [Cut it Out](https://nrich.maths.org/720)  [Let Us Reflect](https://nrich.maths.org/1873)  [Stringy Quads](https://nrich.maths.org/2913)  [Counters in the Middle](https://nrich.maths.org/6978)  [School Fair Necklaces](https://nrich.maths.org/9692)  [Symmetry Challenge](https://nrich.maths.org/1886) | [Geometry: Properties of shape](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Summer_Term_SOL/Year-4-Block-5-Properties-of-shapes.pdf) |
| **Position and movement**  - Describing position  - Plotting points  - Describing movements |  |  | Different ways, p119  Estimate, p119  Draw, p120 | [Coordinate Challenge](https://nrich.maths.org/5038)  [Eight Hidden Squares](https://nrich.maths.org/6280)  [A Cartesian Puzzle](https://nrich.maths.org/1110) | [Geometry: Position and direction](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Summer_Term_SOL/Year-4-Block-6-Position-Direction.pdf) |
| **Roman Numerals**  - Writing Roman Numerals for 1-20  - Writing Roman Numerals to 100 |  |  | True or false, p24  Order, p24  Spot the pattern, p25  Rank by difficulty, p25  Always, sometimes, never, p25  Estimate, p26  Explain, p26 |  |  |