**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%3A%5CUsers%5Cscains%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CIE%5CFBSNOG0P%5CMastery_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? P6Different ways, p7How many ways, p8Number lines, p10Investigate, p14Explain the mistakes, p20I know…so…p20Which answer, p21How many ways, p21Explain, p22,23Fill the gaps, p22Race 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, p28Missing digits, p31How many ways, p32Rank by difficulty, p34Fill the gaps, p43How 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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| **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, 48Is it the same? P51Matching number sentences, p52Which one’s correct? P53Missing digits, p55How many ways, p55Explore, p56, 57Different ways, p59I know…so…p59,60Different ways, p60Explain, p61Rank by difficulty, p62Is it the same? P62Different methods, p63Which one’s correct? P64Investigate, p67How many ways, p67Different ways, p68Explain the mistakes, p69Which answer? P69How many ways? P70,71Which picture, p73Fill 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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| **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, p122Explain, p123Which graph? P123Explain, p125Explore, p126Read 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, p78Read the pictures, p79Draw, p79Read the pictures, p80Draw, p81Which picture, p83I know…so…p83, 843 ways, p84Two ways, p87How 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, p89Missing numbers, p89Missing numbers, p90True or false, p90Which picture? P91I know…so…p91Agree or disagree? P92Is it the same? P92Different ways, p93Two 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? P97Different answers, p98Which 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, p94Which answer, p95Explain, p96Explore, p96Explain, 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? p107Read the picture, p108Explore, 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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| **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? P114Order, p115Explain 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, p119Estimate, p119Draw, 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, p24Order, p24Spot the pattern, p25Rank by difficulty, p25Always, sometimes, never, p25Estimate, p26Explain, p26 |  |  |