**St Mary’s Year 3 Maths overview**

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| **MNP** | **NCETM Spine Materials (subject knowledge development)** | **Additional resources to support understanding** | | | |
| [**Yr3 NCETM assessment materials**](https://www.ncetm.org.uk/public/files/23305581/Mastery_Assessment_Y3_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Numbers to 1000**  - Counting in hundreds  - Counting in hundreds, tens and ones  - Place Value  - Comparing and ordering numbers  - Counting in fifties  - Number patterns  - Number patterns  - Counting in fours and eights | **1.17: TP 1.1- 1.7 (explores composition of 100)**  **1.17: TP 3.4-3.8**  **1.18: TP 5.4**  **1.17: TP 1.5** | **P9-12** | True or false, p4  Which picture, p5  How many ways, p8  Number lines, p9  Estimate, p9  Different ways, p11, 12  Explore, p13 | [Which scripts?](https://nrich.maths.org/774?utm_source=primary-map)  [Coded hundred square](https://nrich.maths.org/6554?utm_source=primary-map)  [Number differences](https://nrich.maths.org/2790?utm_source=primary-map)  [Magic Vs](https://nrich.maths.org/6274?utm_source=primary-map)  [Number match](https://nrich.maths.org/6937?utm_source=primary-map)  [Sitting round the party tables](https://nrich.maths.org/7228?utm_source=primary-map)  [Take three numbers](https://nrich.maths.org/8063?utm_source=primary-map)  [That number square](https://nrich.maths.org/8169?utm_source=primary-map) | [Place value](https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/07/Year-3-Block-1-Place-Value.pdf) |
| **Addition and subtraction**  - Addition and subtraction facts  - Simple adding  - Adding with renaming  - Simple subtracting  - Subtracting with renaming  - Using models | **1.20: TP 1.1-1.3, 2.1-2.4, 3.1-3.5, 4.1- 4.7, 5.1-5.5**  **1.21: TP 1.1- 1.6, 2.1-2.10**  **Teach this first**  **1.17: TP 2.1- 2.11 3.1- 3.13, 4.1-4.10 (mental calculation strategies around the number 100- use in fluency sessions).**  **1.19: TP 1.1-1.3, 2.1-2.12, 3.1-3.11, 4.1-4.4 (mental strategies up to 999)**  **1.18: TP 5.1- 5.15**  **(mental addition within 1,000)** | **P13-15** | **Addition**  Which answer, p6  Different ways, p7  Investigate, p13, 14  How many ways, p15  Missing digits, p15  Rank by difficulty, p27  Mental or written, p28  Explain the mistake, p29, 30  Missing digits, p30, 31  How many ways, p32  Investigate, p33    **Subtraction**  Rank by difficulty, p34  Is it the same, p35  I know…so, p35, 36  Spot the pattern, p36  Gold, silver, bronze, p37  Explain the mistakes, p37, 38  Missing digits, p38  How many ways? P39, 40  **Mixed**  I know…so… p41  Broken calculator, p41  Which picture, p42  Fill the gaps, p43  Which answer, p44 | [Buying a balloon](https://nrich.maths.org/186)  [Super shapes](https://nrich.maths.org/1056)  [Strike it out](https://nrich.maths.org/8016)  [Dicey addition](https://nrich.maths.org/11863)  [Half time](https://nrich.maths.org/7408)  [Play to 37](https://nrich.maths.org/10328)  [Build it up](https://nrich.maths.org/10592)  [Finding fifteen](https://nrich.maths.org/2645)  [Domino square](https://nrich.maths.org/6833)  [Got it](https://nrich.maths.org/1272)  [Consecutive numbers](https://nrich.maths.org/consecutivenumbers)  [Dice in a corner](https://nrich.maths.org/8586)  [4 Dom](https://nrich.maths.org/179) | [Addition and subtraction](https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/07/Year-3-Block-2-Addition-and-Subtraction.pdf) |
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| [**Yr3 NCETM assessment materials**](https://www.ncetm.org.uk/public/files/23305581/Mastery_Assessment_Y3_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Multiplication and division**  - Multiplying by 3  - Multiplying by 4  - Multiplying by 4 and 8  - Multiplying by 8  - Dividing by 3  - Dividing by 4  - Multiplying and dividing  - Dividing by 4 and 8  - Solving worded problems  - Solving problems | **2.8: TP 1.1-1.10 (moves on to 6x and 9x table but at this stage secure 3x table)**  **2.7: TP 1.1-1.11, 2.1-2.8, 3.1- 3.10, 4.1-4.13, 5.1-5.7**  **See above**  **See above**  **See above**  **See above** | **P16-18** | Which number sentence? P46, 47  I know…so… p46  The same as, p48  Read the picture, p49  Draw, p50  Explain, p58  True or false, p61  Rank by difficulty, p62  Different methods, p63  Explore, p65, 66  How many ways? P70  Which picture? P72, 73 | [Ordering cards](https://nrich.maths.org/8058)  [Music to my ears](https://nrich.maths.org/5483)  [A square of numbers](https://nrich.maths.org/2005)  [Follow the numbers](https://nrich.maths.org/7127) | [Multiplication and division](https://wrm-13b48.kxcdn.com/wp-content/uploads/2020/07/Year-3-Block-3-Multiplication-and-Division.pdf) |
| **Further multiplication and division**  - Multiplying 2-digit numbers  - Multiplying with regrouping  - Dividing 2-digit numbers  - Dividing with regrouping  - Solving word problems |  | **P16-18** | Missing digits, p54  Which one’s correct? P64 | [What’s in the box?](https://nrich.maths.org/5576)  [Ip dip](https://nrich.maths.org/7185)  [Journeys in Numberland](https://nrich.maths.org/7285)  [The pied Piper of Hamelin](https://nrich.maths.org/8315) | [Multiplication and division](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/01/Year-3-2018-19-Spring-Term-Block-1-FINAL.pdf) |
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| [**Yr3 NCETM assessment materials**](https://www.ncetm.org.uk/public/files/23305581/Mastery_Assessment_Y3_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Length**  - Writing length in metres and Centimetres  - Writing length in centimetres  - Writing length in metres  - Writing length in kilometres and metre  - Comparing length  - Solving word problems |  | **P22-25** | Explain, p94  True or false, p94  Which answer? P95 | [Olympic starters](https://nrich.maths.org/8170)  [Car journey](https://nrich.maths.org/10350) | [Length](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/SOL-Year-3-2018-19-Spring-Term-Block-4-FINAL.pdf) |
| **Mass**  - Reading weighing scales  - Solving worded problems |  |  | Explain, p94 |  | [Mass and Capacity](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/06/Year-3-2018-19-Summer-Block-4-Mass-Capacity.pdf) |
| **Volume**  - Measuring volume in millimetres  - Measuring capacity in Millimetres  - Measuring volume in millimetres  - Measuring capacity in millimetres and Litres  - Writing volume/capacity in Litres and millimetres  - Solving word problems |  |  | Explain, p94 | [**Oh Harry**](https://nrich.maths.org/5979) | [Mass and Capacity](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/06/Year-3-2018-19-Summer-Block-4-Mass-Capacity.pdf) |
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| [**Yr3 NCETM assessment materials**](https://www.ncetm.org.uk/public/files/23305581/Mastery_Assessment_Y3_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Money**  - Naming amounts of money  - Adding money  - Subtracting money  - Calculating change  - Solving word problems |  | **P22-25** | Which answer? P97  Explain, p97  How many ways? P98 | [**How much did it cost?**](https://nrich.maths.org/5949) | [Money](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/01/Year-3-2018-19-Spring-Term-Block-2-FINAL.pdf) |
| **Time**  - Telling the time  - Measuring and comparing time in seconds  - Measuring time in seconds  - Measuring time in hours  - Measuring time in minutes  - Changing minutes to seconds  - Changing seconds to minutes  - Finding number of days |  | **P22-25** | Rank by difficulty, p95  Which answer, p102  I know…so…p102  Order, p102, 103  Estimate, p103 | [Olympic Starters](https://nrich.maths.org/8170)  [What is the time?](https://nrich.maths.org/7377)  [Clocks](https://nrich.maths.org/1812)  [Two clocks](https://nrich.maths.org/4806)  [The time is](https://nrich.maths.org/7384)  [5 on the clock](https://nrich.maths.org/1981)  [Approaching midnight](https://nrich.maths.org/midnight)  [Wonky Watches](https://nrich.maths.org/1002)  [Watch the Clock](https://nrich.maths.org/980) | [Time](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Summer_Term_SOL/Year-3-2018-19-Summer-Block-2-Time.pdf) |
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| [**Yr3 NCETM assessment materials**](https://www.ncetm.org.uk/public/files/23305581/Mastery_Assessment_Y3_Low_Res.pdf) | **I See Reasoning** | **NRICH** | **White Rose** |
| **Picture Graphs and Bar Graphs**  - Drawing picture graphs  - Drawing bar graphs  - Reading bar graphs |  | **P28-29** | True or false, p121  Explain, p121  Read the graph, p124 | [How Big Are Classes 5, 6 and 7?](https://nrich.maths.org/2399)  [Our Sports](https://nrich.maths.org/7779)  [Class 5’s Names](https://nrich.maths.org/7522)  [Going for Gold](https://nrich.maths.org/7800)  [The Domesday Project](https://nrich.maths.org/7554)  [The Car That Passes](https://nrich.maths.org/7249)  [If the World Were a Village](https://nrich.maths.org/7725)  [Now and Then](https://nrich.maths.org/8171)  [It's a Tie](https://nrich.maths.org/5516)  [Real Statistics](https://nrich.maths.org/4938) | [Statistics](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Spring-Year-3-2018-19-Block-3-FINAL.pdf) |
| **Fractions**  - Counting in tenths  - Making number pairs  - Adding fractions  - Subtracting fractions  - Finding equivalent fractions  - Finding the simplest fraction  - Comparing fractions  - Finding part of a set  - Finding the fraction of a number  - Sharing one  - Sharing more than 1  - Solving word problems | **3.2: TP 6.1- 6.9**  **3.3: TP 5.1-5.6**  **3.4: TP 1.1-1.15, 3.1- 3.5**  **3.4: TP 2.1-2.8**  **3.2: TP 5.1- 5.4,**  **3.3: TP: 4.1-4.5**  **3.3: TP: 7.1-7.6, 8.1-8.13**  **3.4: TP 4.1- 4.5**  **Teach this first**  **3.1: TP 1.1-1.7, 2.1-2.7, 3.1-3.6, 4.1-4.5 (Pre-teach of the part-whole relationship)**  **3.2: TP 1.1-1.2, 2.1-2.6, 3.1-3.8, 4.1-4.6, (Pre-teach of unit fractions)**  **3.3: TP 1.1-1.6, 2.1-2.7, 3.1-3.5, 4.1-4.6, 6.1-6.6, (Pre-teach of non-unit fractions)** | **P19-21** | Read the picture, p75, 76  Draw, p76  Explain, p77  Explain the mistake, p77  Read the picture, p79  Draw, p79  Different ways, p80  Explain, p81  Which picture? P82  Different ways, p85  Which way? P86  Rank by difficulty, p86  Fill the gaps, p87  How many ways, p88 | [Fraction Match](https://nrich.maths.org/6938)  [Matching fractions](https://nrich.maths.org/8283) | [Fractions](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/Year-3-2018-19-Spring-Term-Block-5-FINAL.pdf)  [Fractions](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/SOL-Year-3-2018-19-Spring-Term-Block-4-FINAL.pdf) |
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| **Angles**  - Making Angles  - Finding Angles in shapes  - Finding right angles  - Comparing angles  - Making turns |  | **P26-27** | Order, p115, 116 | [**Square it**](https://nrich.maths.org/squareit) | [Geometry](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/05/Year-3-2018-19-Summer-Block-3-Properties-of-Shape.pdf) |
| **Lines and shapes**  - Identifying perpendicular lines  - Identifying parallel lines  - Finding vertical and horizontal lines  - Describing 2d shapes  - Drawing 2d shapes  - Making 3d shapes  - Describing 3d shapes |  | **P26-27** | Odd one out, p111  Agree or disagree, p112  Explore, p112  Is it correct? P114  Explore, p115  Odd one out, p116  Explain the mistakes, p118 | [Building Blocks](https://nrich.maths.org/2343)  [Triple Cubes](https://nrich.maths.org/7128)  [Stick Images](https://nrich.maths.org/6980)  [Rolling That Cube](https://nrich.maths.org/7299)  [A Puzzling Cube](https://nrich.maths.org/1140)  [Arranging Cubes](https://nrich.maths.org/6973) [Sponge Sections](https://nrich.maths.org/2156)  [Square Corners](https://nrich.maths.org/1142)  [Overlapping Again](https://nrich.maths.org/5820)  [Move Those Halves](https://nrich.maths.org/11040)  [The Third Dimension](https://nrich.maths.org/1148) [Board Block Challenge](https://nrich.maths.org/2872)  [Inky Cube](https://nrich.maths.org/7241)  [National flags](https://nrich.maths.org/7749) | [Geometry](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/05/Year-3-2018-19-Summer-Block-3-Properties-of-Shape.pdf) |
| **Perimeter of figures**  - Measuring total length around a shape  - Measuring perimeter  - Calculating perimeter |  |  | Estimate, p105, 106  Explain, p106  True or false, p108  I know…so…p109 |  | [Perimeter](https://wrm-13b48.kxcdn.com/wp-content/uploads/2019/SoLs/Primary/SOL-Year-3-2018-19-Spring-Term-Block-4-FINAL.pdf) |