**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, p4Which picture, p5How many ways, p8Number lines, p9Estimate, p9Different ways, p11, 12Explore, 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, p6Different ways, p7Investigate, p13, 14How many ways, p15Missing digits, p15Rank by difficulty, p27Mental or written, p28Explain the mistake, p29, 30Missing digits, p30, 31How many ways, p32Investigate, p33 **Subtraction**Rank by difficulty, p34Is it the same, p35I know…so, p35, 36Spot the pattern, p36Gold, silver, bronze, p37Explain the mistakes, p37, 38Missing digits, p38How many ways? P39, 40**Mixed**I know…so… p41Broken calculator, p41Which picture, p42Fill the gaps, p43Which 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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| **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, 47I know…so… p46The same as, p48Read the picture, p49Draw, p50Explain, p58True or false, p61Rank by difficulty, p62Different methods, p63Explore, p65, 66How many ways? P70Which 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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| **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, p94True or false, p94Which 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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| **Money**- Naming amounts of money- Adding money- Subtracting money- Calculating change- Solving word problems |  | **P22-25** | Which answer? P97Explain, p97How 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, p95Which answer, p102I know…so…p102Order, p102, 103Estimate, 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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| **Picture Graphs and Bar Graphs**- Drawing picture graphs- Drawing bar graphs- Reading bar graphs |  | **P28-29** | True or false, p121Explain, p121Read 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, 76Draw, p76Explain, p77Explain the mistake, p77Read the picture, p79Draw, p79Different ways, p80Explain, p81Which picture? P82Different ways, p85Which way? P86Rank by difficulty, p86Fill the gaps, p87How 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, p111Agree or disagree, p112Explore, p112Is it correct? P114Explore, p115Odd one out, p116Explain 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, 106Explain, p106True or false, p108I 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) |