



Mathematics Medium Term Plan: Year 3

| | Block 1 (3 Weeks) <i>Number: Place value</i> | Block 2 (5 Weeks) <i>Number: Addition and subtraction</i> | Block 3 (4 Weeks) <i>Number: Multiplication and division A</i> | |
|---|--|---|--|----------------------|
| White Rose Maths: AUTUMN TERM Small steps | Represent numbers to 100 Partition numbers to 100 Numberline to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1,000 Hundreds, tens and ones Find 1, 10, 100 more or less Numberline to 1,000 Estimating numbers on a numberline to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s ASSESSMENT | Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add ones across a 10 Add tens across a 100 Subtract 1s across a 10 Subtract 10s across to a 100 Make connections Add two numbers (not crossing 10) Subtract two numbers (not crossing 10) Add two numbers (crossing 10) Add two numbers (crossing 100) Subtract two numbers (crossing 10) Subtract two numbers (crossing 010) Add 2-digit and 3-digit numbers - crossing 10 or 100 Subtract a 2-digit number from a 3-digit number - crossing 10 or 100 Complements to 100 Estimate answers to calculations Inverse operations Make decisions ASSESSMENT | Multiplication equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and Grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times table. The 2, 4 and 8 times tables ASSESSMENT | Consolidation |
| DFE Guidance (Ready to progress criteria) | 3NPV-1 - Know that 10 tens are equivalent to 1 hundred, & that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10 3NPV-2 - Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning. 3NPV-3 - Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10 3NPV-4 - Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts | 3NF-1 - Secure fluency in addition and subtraction facts that bridge 10, through continued practice. 3AS-1 - Calculate complements to 100 3AS-2 - Add and subtract up to three-digit numbers using columnar methods. 3AS-3 - Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction. | 3NF-2 - Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. 3MD-1 - Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division | Consolidation |



Holyoakes Field First School Maths Medium Term Plan



| | Block 1 (3 Weeks) <i>Number: Multiplication and division B</i> | Block 2 (3 Weeks) <i>Measurement: Length and perimeter</i> | Block 3 (3 Weeks) <i>Number: Fractions A</i> | Block 4 (3 Weeks) <i>Measurement: Mass and capacity</i> |
|---|--|---|---|---|
| White Rose Maths: SPRING TERM Small steps | <p>Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number - no exchange Multiply a 2-digit number by a 1-digit number - with exchange Link multiplication and division Divide a 2-digit number by a 1-digit number - no exchange Divide a 2-digit number by a 1-digit number - flexible partitioning Divide a 2-digit number by a 1-digit number - with remainders Scaling How many ways? ASSESSMENT</p> | <p>Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres) Compare lengths Add lengths Subtract lengths What is perimeter? Measure perimeter Calculate perimeter ASSESSMENT</p> | <p>Understand the denominators of unit fractions Compare and order unit fractions Understand the numerators of non-unit fractions Understand the whole Compare and order non-unit fractions Fractions and scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models ASSESSMENT</p> | <p>Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and grams) Compare mass Add and subtract mass Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume ASSESSMENT</p> |
| DFE Guidance (Ready to progress criteria) | <p>3NF-3 - Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). 3MD-1 - Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division. 3NPV-3 - Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10</p> | <p>3NPV-1 - Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10 3AS-3 - Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction.</p> | <p>3F-1 - Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. 3F-2 - Find unit fractions of quantities using known division facts (multiplication tables fluency). 3F-3 - Reason about the location of any fraction within 1 in the linear number system. 3F-4 - Add and subtract fractions with the same denominator, within 1</p> | <p>3NPV-4 - Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts</p> |



Holyoakes Field First School Maths Medium Term Plan



| | Block 1(2 Weeks) Number: Fractions B | Block 2 (2 Weeks) Measurement: Money | Block 3 (3 Weeks) Measurement: Time | Block 4 (2 Weeks) Geometry: Shape | Block 5 (2 Weeks) Statistics | Consolidation |
|---|--|---|--|---|---|----------------------|
| White Rose Maths: SUMMER TERM Small steps | Add fractions Subtract fractions Partition the whole Unit fractions of a set of objects Non-unit fractions of a set of objects Reasoning with fractions of an amount ASSESSMENT | Pounds and pence Convert pounds and pence Add money Subtract money Find change ASSESSMENT | Roman numerals to 12 Tell the time to 5 minutes Telling the time to the minute Read time on a digital clock Use AM and PM Years, months and days Days and hours Hours and minutes - use start and end times Hours and minutes - use durations Minutes and seconds Units of time Solve problems with time ASSESSMENT | Turns and angles Right angles Compare angles Measure and draw accurately Horizontal and vertical Parallel and perpendicular Recognise and describe 2D shapes Draw polygons Recognise and describe 3D shapes Make 3D shapes ASSESSMENT | Interpret pictograms Draw pictograms Interpret bar charts Draw bar charts Collect and represent data Two-way tables ASSESSMENT | Consolidation |
| DFE Guidance (Ready to progress) | No RTP | No RTP | No RTP | 3G-1 - Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations. 3G-2 - Draw polygons by joining marked points, and identify parallel and perpendicular sides. | No RTP | Consolidation |