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| Long Term Plan |  |  | Ready to Progress Criteria/ Assessment Guidance |  | Year Group: | 3 |
|  | Autumn Term |  | Spring Term |  | Summer Term |  |
| Number and Place Value | 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 10 s there are in other three-digit multiples of 10 . <br> - How many 10 cm lengths can a 310 cm length of ribbon be cut into? <br> - The school office sells 52 poppies for 10 p each. How much money have they collected altogether? <br> - I take 10 ml of medicine every day. How many days will a 250 ml bottle last? <br> - Marek is 2 years old, and has a mass of 10 kg . His father's mass is 10 times as much. What is the mass of Marek's father? <br> - Janey saves up $£ 100$. This is 10 times as much money as her brother has. How much money does her brother have? <br> - Circle the numbers that are multiples of 10 . Explain your answer. <br> - 640300105510330 409100864 <br> 3NPV-2 Recognise the place value of each digit in threedigit numbers and compose and decompose three-digit numbers using standard and |  |  |  |  |  |


|  | counters? <br> - What number is represented by this expression? <br> - Fill in the missing numbers to complete these partitioning diagrams. <br> - Fill in the missing numbers <br> - Fill in the missing symbols ( $<,>$ or $=$ ). <br> - There are 365 days in a year. If it rains on 65 days of the year, on how many days does it not rain? <br> - A bamboo plant was 4 m tall. Then it grew by another 83 cm . How tall is the bamboo plant now? Express your answer in centimetres. <br> - In the school library there are 25 books on the trolley and 250 books on the shelves. How many books are there altogether? <br> - Francesco had 165 marbles. Then he gave 45 marbles to his friend. How many marbles does Francesco have now? <br> - The tree outside Cecily's house in 308 cm tall. How much further would it have to grow to reach the bottom of Cecily's bedroom window, at 3 m 68 cm ? <br> 3NPV-3 Reason about the location of any threedigit number in the linear number system, including identifying the previous and next multiple of 100 and 10 . |  |  |  |  |  |
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|  |  | representations (concrete, pictorial and abstract) <br> - Independently choose to scaffold thinking using concrete, pictorial or abstract representations if required <br> Reasoning <br> - Provide a convinced argument | efficient way to solve a range of problems <br> Reasoning <br> - Reflect on others' convinced explanations and use this to improve their work <br> Rich Tasks <br> - Music to My Ears <br> - Ordering Cards <br> - Number Detectives <br> - Ring a Ring of Numbers <br> - More Numbers in the Ring <br> - Clapping Times <br> - Even and Odd <br> - How Odd Pairs of Legs <br> - Two Numbers Under the Microscope <br> - Odd Time Even <br> - Double or Halve? <br> - Always, Sometimes, Never? <br> - Table Teaser <br> - Which Symbol? |  | not. Explain your answers. <br> - Sofia had a jug containing 7/10 of a litre of juice. She drank $4 / 10$ of a litre. How much does she have left? <br> Problem Solving <br> - Independently work systematically <br> - Independently find possibilities using patterns spotted to support <br> - Independently check and improve work (look for other possibilities, repeats, missing answers, errors and ways to improve) <br> - Pattern spot and predict what will come next in a pattern/ sequence (numbers, shape or spatial) <br> - Independently investigate conjectures and provide examples and counter-examples <br> - When they have solved a problem, pose a similar problem for a peer <br> Reasoning <br> - Edit and improve their own and a peer's convinced explanation <br> - Investigate 'what if?' questions <br> - Create 'what if?' questions <br> Rich Tasks <br> - Happy Halving <br> - Halving <br> - Fair Feast <br> - Fraction Match <br> - Matching Fractions |  |
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| Geometry <br> Measurement |  | Problem Solving <br> - Engage with mathematical activities and problems making links and moving between different representations (concrete, pictorial and abstract) <br> - Independently choose to scaffold thinking using concrete, pictorial or abstract representations if required <br> Reasoning <br> - Provide a convinced argument | Measurement: Money (No RTP) <br> - Recognise coins and notes <br> - Count money- pence <br> - Count money- pounds (notes and coins) <br> - Count money- notes and coins <br> - Select money <br> - Make the same amount <br> - Compare money <br> - Find the total <br> - Find the difference <br> - Find change <br> - Solve two-step problems <br> Problem Solving <br> - Independently choose to represent thinking using concrete, pictorial or abstract representations as appropriate <br> - Independently find an efficient way to solve a range of problems <br> Reasoning <br> - Reflect on others' convinced explanations and use this to improve their work | Statistics (No RTP) <br> - Make tally charts <br> - To draw pictograms (2, 5 and 10) <br> - Interpret pictograms (2,5 and 10) <br> - Construct and interpret pictograms <br> - Construct and interpret Bar Charts <br> - Construct and interpret tables <br> Measurement: Length and Perimeter (No RTP) <br> - Measure length <br> - Measure length in metres <br> - Find equivalent lengthsm and km <br> - Find equivalent lengthsmm and cm <br> - Compare lengths <br> - Add lengths <br> - Subtract lengths <br> - Measure perimeter <br> - Calculate perimeter <br> Problem Solving <br> - Independently choose to represent thinking using concrete, pictorial or abstract representations as appropriate <br> - Independently find an efficient way to solve a range of problems <br> Reasoning <br> - Reflect on others' convinced explanations and use this to improve their work | Measurement: Time (No RTP) <br> - Use o'clock and half past <br> - Use quarter past and quarter to <br> - Tell the time to 5 minutes <br> - Tell the time to the minute <br> - Use a.m. and p.m. <br> - Tell time using the $24-$ hour clock <br> - Find the duration <br> - Compare durations <br> - Calculate start and end times <br> - Measure time in seconds <br> - Calculate the number of hours in a day <br> - Recognise months and years <br> Problem Solving <br> - Independently work systematically <br> - Independently find possibilities using patterns spotted to support <br> - Independently check and improve work (look for other possibilities, repeats, missing answers, errors and ways to improve) <br> - Pattern spot and predict what will come next in a pattern/ sequence (numbers, shape or spatial) <br> - Independently investigate conjectures and provide examples and counter-examples <br> - When they have solved a problem, pose a similar problem for a peer | 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. <br> - Here is a map of a treasure island. <br> - a. Follow the instructions and say where you end up. Each time, start at the camp, facing north. Go forwards 3 squares. Make a quarter turn clockwise. Go forwards 2 squares. Make a quarter turn anticlockwise. Go forwards 2 squares. Where are you? Make a three-quarter turn clockwise. Go forward 3 squares. Make a quarter turn anticlockwise. Go forward 1 square. Where are you? Start at the camp, facing North. Write some instructions, like the ones above, to get to the treasure. <br> - Draw an irregular hexagon with one right angle on this grid. <br> - Mark all of the right angles in these shapes. Use a rightangle checker to help you. <br> 3G-2 Draw polygons by joining marked points |
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|  |  |  |  |  | Reasoning <br> - Edit and improve their own and a peer's convinced explanation <br> - Investigate 'what if?' questions <br> - Create 'what if?' questions | and identify parallel and perpendicular sides. <br> - Task: Provide each pupil with 2 trapezium pieces from a pattern block set. Then ask them to make 3 different shapes by joining the pieces and discuss the properties of each shape they make. <br> - Here are 5 vertices of a regular hexagon. Mark the sixth vertex and join the points to draw the hexagon. <br> - Here are 2 sides of a square. Complete the square. <br> - Look at these 5 quadrilaterals. Mark all the pairs of parallel sides. Hint: you can extend sides to help you. <br> - Mark the missing vertex of this quadrilateral so that 2 of the sides are perpendicular. <br> Measurement: Mass and Capacity (No RTP) <br> - Compare mass <br> - Measure mass <br> - Add and subtract mass <br> - Compare volume <br> - Measure capacity <br> - Add and subtract capacity <br> - Measure and describe |
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|  |  |  |  |  |  | temperature <br> Problem Solving <br> - Independently work systematically <br> - Independently find possibilities using patterns spotted to support <br> - Independently check and improve work (look for other possibilities, repeats, missing answers, errors and ways to improve) <br> - Pattern spot and predict what will come next in a pattern/ sequence (numbers, shape or spatial) <br> - Independently investigate conjectures and provide examples and counter-examples <br> - When they have solved a problem, pose a similar problem for a peer <br> Reasoning <br> - Edit and improve their own and a peer's convinced explanation <br> - Investigate 'what if?' questions <br> - Create 'what if?' questions |
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