

Cloudside Academy
MTP Year 5 Autumn 2 2019-20



| Resources Protractors, rulers, axis, graphs, multiplication squares, Cuisenaire, cubes | | Mastery: (where to find some resources) <ul style="list-style-type: none"> • Teaching for Mastery • White Rose • Mastery maths stickers • Nrich (curriculum mapping) | Links to prior learning/ objectives ~ Identifying and naming different angles and the properties associated with each. ~ Angle facts. ~ Properties of rectangles- perimeter. ~ Basic introduction to line graphs and continuous data. ~ Multiplication facts up to 12 x 12. ~ Factors and multiples. ~ Using manipulatives to demonstrate mathematical concepts. ~ Mental strategies for calculation. | |
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| Dates Focus | Objectives | Vocabulary | Barriers to ARE (misconceptions) | |
| Week 1 4.11.19 | Solve comparison, sum and difference problems using information presented in a line graph | Comparison, sum, difference, line graph, continuous, data, axis, intervals, scale, horizontal, vertical, | Interpreting a graph. Reading a scale, recognising the intervals and understanding what each axis represents. Recognising that the data is continuous. Understanding the terminology within the questions- difference/ sum/ comparison. | |
| Week 2 11.11.19 | Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 | Prime numbers, factors, prime factors, composite numbers, multiples, multiplication facts, divisible, division facts. | Understanding of the vocabulary and mixing terminology up. Multiplication knowledge. Using known facts and making links between these and prime numbers. | |
| Week 3 18.11.19 | Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. | Square numbers, cube numbers, squared, cubed, multiples, factors, primes, multiplication facts, divisible, division facts | Understanding of the vocabulary and mixing terminology up. Multiplication knowledge. Using known facts and making links between these and squared/cubed numbers. Application of their understanding of square and prime numbers. | |

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| Week 4 25.11.19 | Multiply and divide numbers mentally drawing upon known facts | Mental strategies, known facts, derived facts, multiplication facts, division facts. | Mental strategies, using known and derived facts to calculate more complex calculations. Multiplication knowledge. Holding more than one step in their head. Using the most efficient methods. |
| Week 5 2.12.19 | Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. | Rectangle, rectilinear, (right-angle), flat, edge, side, vertex, vertices, perimeter, addition, total, altogether, units, meters, centimeters | Children might count each edge more than once. Children might miss out some of the edges. Children might not identify missing lengths. Children might not use the appropriate units. Children might not use the appropriate units. Children might not identify the relationship between rectangles and rectilinear shapes. |
| Week 6 9.12.19 | Assessment week? Assessments and use this time to focus on any gaps in learning and especially key skills! | | |
| Week 7 16.12.19 | Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes | Area, rectangles, standard units, centimetres, square, metres, irregular shapes, properties, estimate. | Children may struggle to know the properties of given shapes. Children may not understand what the area is. Children may confuse area and perimeter. Children may not recognise irregular shapes. Children may forget to use squared when writing the area. Children may struggle to make an informed estimate. |