TNHA Subject Curriculum, 2023/24

|  | Autumn Term |  | Spring Term |  | Summer Term |  |
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| Topic title- | Representations <br> Representing Data <br> Tables and Probability <br> Multiplying and Dividing Fractions | Proportional <br> Reasoning <br> Ratio and Scale <br> Multiplicative <br> Change <br> Working in the <br> Cartesian Plane | Algebraic Techniques <br> Sequences Brackets, Equations and Inequalities. | Developing Number Sense <br> Fractions and Percentages. Standard Index Form. <br> Number Sense. Indices. | Developing <br> Geometry <br> Angles in Parallel Lines and Polygons. Area of Trapezia and Circles. <br> Line Symmetry and Reflection. | Reasoning with <br> Data <br> The Data Handling Cycle. Measures of Location |
| Powerful <br> knowledge (will <br> vary depending on ability) | Averages: Mode and median Equivalent Fractions Fractions; mixed to improper, +/same and multiple denominator Pie Charts: draw and interpret Stem and Leaf (Sept '24) | Long <br> Multiplication <br> Division: by <br> single digit <br> Metric <br> conversions <br> Coordinates: <br> Four quadrants <br> Four rules <br> decimals and <br> negative <br> numbers <br> Ratio and <br> Proportion: | Simplifying <br> Algebra: single <br> variable <br> Solving <br> Equations: 2 <br> step <br> Number <br> sequences: <br> term to term <br> rule <br> Solving <br> equations: 3 <br> step | Factors, multiples, primes Square \& cube numbers Multiplying and dividing: integers and decimals by 10/100 Percentages; Calculate 50, 25, 10, 5, 1\% Rounding; dp, sf and estimating | Angles (point, line) <br> Perimeter: <br> compound <br> shapes <br> Area: <br> Trapezium and compound area <br>  <br> surface area; <br> cuboid <br> Angles: triangle including |  |



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|  | Interpreting graphs and tables containing data | with negative and decimal numbers <br> Understanding metric conversions | up to 3 steps with a reliable method Interpreting inequalities | Finding basic percentages | shapes including angles, area and perimeter | learned averages to evaluate and compare data. |
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| Assessment (inc. homework)- | End of half term/term assessments on taught knowledge. Powerful knowledge assessment at the end of the year. Homework set on Sparx weekly. |  |  |  |  |  |
| Stretch and Challenge Opportunities | -Opportunity to visit Bletchley Park for curriculum enrichment trip. <br> -Learning about History and origins of Maths through Literacy and comprehension tasks. <br> - Extension of curriculum to include topics outside of NC. <br> $\bullet$ Extension of curriculum to include Higher Level only topics, extending into year 9 curriculum and beyond. |  |  |  |  |  |

