

Year 5 - Maths overview

Stage 5 Year Overview		
Unit	Learning Hours	Summary of Key Content
1. Investigating Number Systems	13	Read, write, compare and order numbers up to 1 000 000; read Roman numerals to 1000; read, write and interpret negative numbers. Round integers to powers of 10, round decimals to 2dp, order decimals to 3dp
2. Pattern Sniffing	11	Count forwards, backwards in steps of powers of 10; multiply and divide numbers mentally Recognise and use square and cube numbers Identify factors and multiples, know and use prime numbers
3. Solving Calculation Problems	12	Add and subtract numbers mentally; Formal addition and subtraction up to 4d; Solve addition and subtraction multi-step problems in context; Formal multiplication up to 4d x 1d. Use rounding to check answers
4. Generalising Arithmetic	10	Multiply and divide whole numbers and decimals by 10, 100, 1000 Formal division up to 4d /1d.
5. Exploring Shape	12	Estimate and compare acute, obtuse and reflex angles Use properties of rectangles to find missing lengths and angles; identify regular polygons
6. Reasoning with Measures	10	Perimeter of rectilinear shapes; area of rectangles; estimate area or irregular shapes; estimate volume.
7. Discovering Equivalence	14	Mixed number and improper fractions; compare and order fractions with multiple denominators; identify and name equivalent fractions; count in hundredths; write decimals as fractions; recognise and use thousandths; understand per cent and % sign; write percentages as fractions over 100; solve problems involving equivalence of simple FDP.
8. Reasoning with Fractions	8	Add and subtract fractions with same denominators or those that are multiples of each other Multiply proper fractions and mixed numbers by integers (supported diagrammatically)
9. Solving Number Problems	8	Recap multiplication and division; Solve problems involving any of the four operations, including problems of factors, multiples and squares and problems involving decimals up to 3dp.
10. Investigating Statistics	6	Line graphs – comparison, sum and difference problems; complete, read and interpret tables
11. Visualising Shape	8	Draw given angles, measure them in degrees; identify 3D shapes from 2D representations
12. Exploring Change	4	Solve problems converting between units of time
13. Proportional Reasoning	4	Recap mental calculations; revisit formal methods for multiplication and division; solve calculation problems for 4 operations.
14. Describing Position	5	Describe position of shape following reflection or translation
15. Measuring and Estimating	8	Solve problems involving four operations and measures; convert between metric units; understand approximate metric-imperial conversions