

Year 6 - Maths overview

Stage 6 Year Overview		
Unit	Approx Learning Hours	Summary of Key Content
1. Investigating Number Systems	11	Recognise place value; compare and order numbers up to 10 000 000 and to 3 decimal places; Negative numbers; Rounding
2. Pattern Sniffing	9	Generate and describe linear sequences Identify common factors, common multiples and prime numbers
3. Exploring Calculation	15	Mental calculations; Solve addition and subtraction problems; Formal multiplication up to $4d \times 2d$; Multiply a decimal with up to 2 dp by a single digit; Estimation; Use simple formulae
4. Generalising Arithmetic	13	Mental calculations; Formal division up to $4d \div 2d$; Divide a decimal by an integer; Order of operations; Solve problems involving all 4 operations
5. Exploring Shape	11	Name parts of circles Angles in polygons; angles at a point, on a straight line and vertically opposite Compare and classify geometric shapes
6. Reasoning with Measures	10	Area of parallelograms and triangles; appreciation of range of shapes with same area or perimeter; appreciation of formulae for area; volume of cuboids
7. Discovering Equivalence	8	Compare and order fractions < 1 ; Simplify fractions and express them with a common denominator; Solve percentage calculation problems; FDP equivalence
8. Reasoning with Fractions	8	Add and subtract fractions with different denominators Multiply and divide proper fractions
9. Solving Number Problems	6	Multiply and divide numbers (inc decimals) by powers of 10; revisit formal methods for multiplication and division; solve calculation problems for 4 operations (inc rounding)
10. Investigating Statistics	8	Interpret and construct pie charts and line graphs Calculate and interpret the mean as an average
11. Visualising Shape	8	Draw 2D shapes accurately; recognise, describe and build 3D shapes
12. Exploring Change	4	Coordinates – 4 quadrants
13. Proportional Reasoning	8	Solve problems involving measures. Solve scaling problems; solve similar shapes problems; solve unequal sharing problems
14. Describing Position	4-8	Coordinates – 4 quadrants; Translations
15. Measuring and Estimating	8	Solve problems involving calculation and conversion of measures and units.