

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Key focus	Ratio and scale Multiplicative change Multiplying and dividing fractions	Prime numbers and proof Probability	Fractions and percentages Standard form	Brackets, equations and inequalities Sequences	Angles in parallel lines and polygons Area	Data cycle Measures of location
Key knowledge and skills	Write ratios Recognize ratios as multiplicative change Compare ratios and fractions Share in ratios Convert currencies Explore conversion graphs Multiply simple fractions Multiply fractions greater than one Divide simple fractions Divide fractions greater than one	Recognise number types Make and test conjectures Understand and use sets Understand and use Venn diagrams Use two way tables Use sample space diagrams	Convert between fractions, percentage and decimals Find fractions and percent of amounts Convert between ordinary numbers and standard form Calculate in standard form	Expand brackets (single and double) Factorise single brackets Form and solve equations Form and solve inequalities Generate sequences Find the nth term Using index laws	Know and use angle properties Basic constructions Use rules for area and perimeter	Set up a statistical enquiry Carry out a statistical enquiry Draw and interpret a range of charts Know and use the different averages Identify outliers
Key words/ vocabulary	Ratio Scale Share Proportion Integer Simplest Fraction Part Equivalent	Multiple Factor Prime Expression Conjecture Counterexample Set Union Intersect Complement Chance	Fraction Percent Decimal Amount Increase Decrease Multiplier Standard form Indices Negative	Formula Expression Term Identity Equation Inequality Form Solve Rearrange Binomial Term to term Rule Pattern Linear Arithmetic Geometric Index Powers	Angle Property Parallel Polygon Quadrilateral Alternate Co-Interior Corresponding Prove Construct Bisect Sum Area Perimeter Circumference Radius Diameter Trapezia Compound	Enquiry Data Questionnaire Collect Diagram Chart Interpret Quantitative Range Average Mean Median Mode Outlier Appropriate Compare Distribution

Assessment method	Topic summaries Formative assessment	Topic summaries Formative assessment Summative assessment points	Topic summaries Formative assessment Summative assessment points	Topic summaries Formative assessment	Topic summaries Formative assessment	Topic summaries Formative assessment Summative assessment points
Wider links	Art- paint mixing Food- recipes Geography- maps	Geography- world events	Food- sharing Science- large and small numbers	Tech- design Art- modern painters	Tech- design and layout Tech- manufacture	English- analysing text difficulty Geography- Comparing populations
Enrichment opportunities	https://nrich.maths.org/6870 https://nrich.maths.org/4793 Independent work – Sparx club	https://nrich.maths.org/4304 https://mrnussbaum.com/probability-fair-online-game Independent work – Sparx club	http://nrich.maths.org/6349 Independent work – Sparx club	http://nrich.maths.org/8470 Independent work – Sparx club	Juinar Maths Challenge http://nrich.maths.org/9711 Suggested reading: A Brief History of Pi Independent work – Sparx club	Statistics investigation Independent work – Sparx club
Careers links	Cartographer	Meteorologist Statistician	Rocket scientist	Chemist	Cartographer Architect Designer Storage designer	Statistician Market researcher