Ratio and proportion, algebra
Note: although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3

Objectives	Y1	Y2	Y3	Y4	Y5	Y6
National curriculum objectives	-solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9	-recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	-solve problems, including missing number problems			-solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts - solve problems involving the calculation/use of percentages for comparison -solve problems involving similar shapes where the scale factor is known or can be found -solve problems involving unequal sharing and grouping using knowledge of fractions and multiples -use simple formulae -generate and describe linear number sequences -express missing number problems algebraically -find pairs of numbers that satisfy an equation with two unknowns - enumerate possibilities of combinations of two variables
Dfe ready to progress criteria						**6AS/MD-1** Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number). **6AS/MD-2** Use a given additive or multiplicative calculation to derive or complete a related calculation, using

					arithmetic properties, inverse relationships, and place-value understanding. **6AS/MD-3** Solve problems involving ratio relationships. **6AS/MD-4** Solve problems with 2 unknowns.
Power Maths unit/s and when taught in school					Textbook 6A Taught in Autumn Unit 2: Four operations (1) – lesson 4 and 5 (6AS/MD-1) Unit 3: Four operations (1) lesson 10 and 11 (6AS/MD-1) lesson 12 (6AS/MD-2) Textbook 6B Taught in Spring Unit 7: Ratio and proportion – lesson 1,2,3,7,8,9 (6AS/MD-3) Unit 8: Algebra – lesson 7,10,11 (6AS/MD-4)
Other resources to aid teaching	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks -White Rose – Spring 1, Spring 2 -NCETM ratio & proportion pages 23-25 & Algebra pages 26-29 https://www.ncetm.org.uk/media/uitj1x5g/mastery_assessment_y6.pdf

Key: Highlighted objectives above link to the topic of place value taught

Red = ratio and proportion
Blue = Algebra