

Year 8		
Autumn Term Year 8	vle.mathswatch.co.uk	www.kerboodle.co.uk
Unit 1 Factors and Multiples	Mathswatch clips	Textbook reference book 2B/2C
Understand and Use factors and Multiples	N10 and N11	Y7 1B/1C textbook Ex 1.8
Recognise Prime Numbers	N30a	Ex 1.1
Express a composite number as a product of its prime numbers	N30b	Ex 1.1
Represent the prime factorisation of a number in index form	N30b	Ex 1.1
Find HCF and LCM of a group of numbers by using prime factorisation	N31a and N31b	Ex 1.2 and Ex 1.3
Understand the use of prime factorisation to find the square root and cube root of a number		Ex 1.4
Unit 2 Ratio, Rate and Speed		
Understand and use the meaning and representation of ratio	R1a and R1b	Ex 3.1
Describe the relationship between ratio and fractions	R1a, b, R5a	Ex 3.2
Divide a quantity into a given ratio	R5b	Ex 3.1 and Ex 3.2
Understand and use the scale of a map or plan	N8 and R6	Ex 3.3
Solve problems involving rate in daily life	R8	Ex 3.4
Solve problems involving speed	R11a	Ex 3.5
Unit 3 Approximation and Estimation		
Round numbers to a required number of decimal places	N27b	Ex 2.1
Round numbers to a required number of significant figures	N38	Ex 2.2
Estimate quantities to an appropriate degree of accuracy and use in calculations	N43a and N43b	Ex 2.3
Unit 4 Algebraic Expressions, Formulae and Proof		
Use letters to represent numbers or variables	A2	Ex 5.1
Interpret algebraic notations	A4	Ex 5.1
Evaluate algebraic expressions and formulae	A6 and A10	Ex 5.2
Express real-world situations in algebraic terms	A3 and A4	Ex 5.3
Simplify linear expression	A6 and A8	Ex 5.4
Prove a statement algebraically		Ex 5.5
Unit 5 Equations and Inequalities in one variable		
Understand the concepts of equations and the solution of an equation	A12	Ex 6.1
Solve linear equations in one variable	A12, A19a, A19b	Ex 6.1
Use a bar model to represent equations		Ex 6.2
Formulate linear equations in one variable to solve problems	A17	Ex 6.3
Understand the concept and properties of linear inequalities	A20a and A20b	Ex 6.4

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Spring Term Year 8	vle.mathswatch.co.uk	www.kerboodle.co.uk
Unit 6 Angles in Quadrilateral and Polygons	Mathswatch clips	Textbook reference book 2B/2C
Classify and recognise special quadrilaterals on the basis on their properties	G14	Ex 9.1
Recognise the properties of polygons, including symmetry properties	G11	Ex 9.2
Unit 7 Perimeter and Area of Parallelograms and Trapezia		
Recap area of rectangle, triangle and circle	G20a, G20c	Y7 book 1B/1C chapter 10
Calculate the area of a parallelogram	G20b	Ex 10.1
Calculate the area of a trapezium	G20d	Ex 10.2
Solve problems involving perimeters and areas of composite plane figures	G24	Ex 10.3
Unit 8 Coordinates and Linear Functions		
Construct the Cartesian coordinate system in two dimensions and state the coordinates of points on it	A1a, A1b	Ex 7.1
Plot a graph of a set of ordered pairs as a representation of a relationship between two variables	A14a	Ex 7.1
Recognise the idea of functions	N26	Ex 7.2
Recognise linear functions in the form of $y = mx + c$ and draw their graphs	A14b, A14c	Ex 7.3
Find the gradient of a linear graph	A14c	Ex 7.4
Unit 9 Number Patterns		
Recognise number patterns and sequences	N12	Ex 8.1
Find terms of a sequence using a term-to-term or a position-to-term rule	A11a, A11b	Ex 8.1
Recognise arithmetic and geometric sequences	A11a, A11b, A11c	Ex 8.1
Find the formula for the general (nth) term of an arithmetic sequence	A11c	Ex 8.2
Solve problems involving number patterns and sequences	A11a, A11b, A11c	Ex 8.2 and revision exercise
Unit 10 Percentages	Mathswatch clips	Textbook reference book 2B/2C
Express a percentage as a fraction or a decimal	N32	Ex 4.1 (recap Chapter 7 Y7 1B/1C)
Express one quantity as a percentage of another	N39a	Ex 4.1
Compare two quantities by percentage	N39b	Ex 4.2
Recognise percentages greater than 100%	N24a	Ex 4.2
Calculate simple interest	N39a	Ex 4.2
Solve problems involving reverse percentage	110	Ex 4.3
Calculate percentage increase and decrease in quantities	R9a R9b	Ex 4.4

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