

Year 9		
Autumn Term Year 9	vle.mathswatch.co.uk	www.kerboodle.co.uk
Unit 1 Indices and Standard Form	Mathswatch clips	Textbook reference book 3B
State and apply the laws of indices	29	Ex 1.1
Simplify an expression involving indices	82	Ex 1.1
State and apply the definitions of zero and negative indices	154	Ex 1.2
Express and compare numbers in standard form	N45a N45b	Ex 1.3
Calculate using numbers in standard form	83	Ex 1.3
Unit 2 Proportion		
Understand the idea of direct proportion and indirect proportion	R8 R13	Ex 2.1 Ex 2.2
Determine whether two quantities are in direct proportion or inverse proportion from a graph, tables or an equation connecting the two quantities	42 199	Ex 2.1 Ex 2.2
Solve practical problems involving direct and inverse proportion		Revision Exercise 2
Unit 3 Linear Equations in two variables		
Rearrange a formula to change the subject	A13a A13b	Ex 3.1
Understand the properties of a linear equation in two variables	A14a A14b A14c	Ex 3.2
Draw the graph of a linear equation in two variables	A14a A14b A14c	Ex 3.2
Understand the idea of simultaneous equations and their solutions	A26a	Ex 3.3
Solve simultaneous linear equations in two variables using the graphical method, the substitution method and the elimination method	A24a A24b	Ex 3.3 Ex 3.4 Ex 3.5
Recognise the approximate nature of the graphical method	A24a	Ex 3.3
Apply simultaneous linear equations in two variables to solve problems	A26b A26c	Revision Exercise 3
Unit 4 Factorisation and Quadratic Expressions		
Understand factorisation of an algebraic expression as a reverse process of expansion	A9	Ex 4.1
Factorise a linear algebraic expression by using common factors	A9	Ex 4.1
Manipulate quadratic expressions	A8	Ex 4.2
Expand the product of two linear algebraic expressions	A18	Ex4.3

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