Maths Year 11 into 12 Summer Work - Summer 2025

General Information	**Welcome to Year 12 Maths** – a journey that is about much more than numbers, formulas, or exams. This is the stage where mathematics transforms from a subject you study to a powerful language that explains the world around you. A level Maths begins with the foundations you built at GCSE. Algebra, indices, surds, graphs, trigonometry, and problem solving – They're the stepping stones into the deeper, more exciting world of A Level Maths. Think of your GCSE knowledge like the base of a pyramid: the stronger it is, the higher you can build.		
	This course will challenge you. It will stretch your thinking, test your resilience–but it will also reward you in many ways. Maths teaches you how to think, how to question, and how to solve. These are the skills that don't just prepare you for exams–they prepare you for life. So approach this year with confidence. Be proud of how far you've come. Trust in your foundations and be open to growth. This is your time to step forward, to dig deep, and to show what you're capable of.		
	Let's build something brilliant.		
	Book Exercise (Complete the following exercise)	**Video Links**	**PDF File for Exercise**
Week 1	1.1 Index Laws 1.2 Expanding Brackets 1.3 Factorising	1.1 Index Laws 1.2 Expanding Brackets 1.3 Factorising	Pure1 Textbook
Week 2	1.4 Negative and Fractional Indices 1.5 Surds 1.6 Rationalising the Denominator	1.4 Negative and fractional indices 1.5 Surds 1.6 Rationalising denominators	Pure1 Textbook
Week 3	2.1 Solving Quadratic Equations	2.1 Solving quadratic equations	Pure1 Textbook
Week 4	2.2 Completing the square	2.2 Completing the square	Pure1 Textbook
Week 5	3.1 Linear Simultaneous Equations 3.2 Quadratic Simultaneous Equations	3.1 Linear Simultaneous Equations 3.2 Quadratic Simultaneous Equations	Pure1 Textbook