Foundation Module Collections - Online Courses

Title	Author/s	Recommended Year Level	Content
Algebra without Anxiety - Algebra starter	Hamish McAlley	8/9	Algebra explained, addition rules, subtraction rules Multiplication rules for algebra How to multiply the same letters Division rules for algebra What are like terms? How do we use them?
Algebra without Anxiety – Year 9 and Upper Year 8	Craig Grant Hamish McAlley	9	*Simplifying and Need to Know - Algebra explained, key understandings *Substitution - Finding substitution solutions *Simplifying Fractions - Simplifying fractions, algebra with fractions *Expanding 1 - One bracket expansions *Factorising 1 - Factorising with a common factor
Algebra without Anxiety – Year 10	Craig Grant Hamish McAlley	10	*Expanding 2 - Expanding 2 brackets, FOIL *Factorising 2 - Factorising quadratics *Rearranging Formulae - What is a formula?, Changing the subject *Linear solving 1 - One step equations, Two step equations *Linear Solving 2 - Variable on both sides, Solving with fractions
Algebra without Anxiety – Year 11	Craig Grant and Hamish McAlley	11	Factorising advanced quadratics Solving quadratic equations Solving word problems, forming equations from stories Solve simultaneous equations using the substitution method Solve simultaneous equations using the elimination method
Algebra without Anxiety – Year 12	Craig Grant Hamish McAlley	12	The Quadratic Formula The Discriminant Completing the Square Index Rules Explained Logarithms

Intro to High School Mathematics	Hamish McAlley	8/9	What are factors?, How to find factors of a number, Primes Introducing the concept of negative numbers, How to add and subtract with negatives How to multiply and divide with negatives What are angles?, Types of angle, Naming angles Algebra explained, addition rules, subtraction rules
Year 9 Maths Fundamentals	Craig Grant Hamish McAlley	9	Algebra explained, key understandings Mean, median, mode, average Background, Fill in the blanks, Questions Relative size of numbers and fractions, Negative numbers Relations between fractions, decimals and percentages
Year 10 Maths Fundamentals	Craig Grant and Hamish McAlley	10	*Expanding 1 - One bracket expansions *Factorising 1 - Factorising with a common factor *Pythagoras - Theorem of Pythagoras, Finding missing side lengths *Probability - What is probability?, Finding probabilities *Angles – Fundamentals - Basic angle rules, Angle rules for triangles
Year 11 Maths Fundamentals	Hamish McAlley and Craig Grant	11	Expanding 2 brackets, FOIL Factorising quadratics Corresponding angles, Alternate angles, Co-interior angles Quadrilaterals, Triangles, Circles Identifying the formula to describe a pattern
Year 12 Maths Fundamentals	Hamish McAlley	12	What is the quadratic formula?, Using the quadratic formula Terms, combining indices, rule sheet Producing a two-way table, Using a two-way table Producing a tree diagram, Using a tree diagram Non-right angled triangles, Finding missing sides, Finding missing angles
Year 13 Maths Fundamentals Calculus	Hamish McAlley	13	What is differentiation?, How to differentiate What is integration?, How to integrate Useful common trigonometric identities What is a surd?, Simplifying surds Equation of a circle, defining a circle by its location and size
Carefree Calculus Yr 12	Hamish McAlley	12	What is differentiation?, How to differentiate What is integration?, How to integrate Maxima and Minima, Second derivative test What are tangents?, Finding their equations Practical applications of calculus, Optimisation, Kinematics

Genius at Geometry- Triangles	Hamish McAlley	10 +	Theorem of Pythagoras, Finding missing side lengths Using SOHCAHTOA for sides Using SOHCAHTOA for angles Recognising triangles in 3D, Calculations with trig and Pythagoras Triangles with same angles, Ratios of sides
Genius at Geometry- Angles	Hamish McAlley	10 +	Basic angle rules, Angle rules for triangles Corresponding angles, Alternate angles, Co-interior angles Exterior angles of a polygon, Interior angles of a polygon, Bearings Angles on an arc, Angles at circumference Cyclic quadrilaterals, Angles involving tangents
No nuisance Numbers – Intro to fractions	Hamish McAlley	8/9	Learning how to visually identify a fraction Adding fractions, Subtracting fractions Multiplying fractions, Dividing fractions Factors and common factors, How to find a fraction's simplest form Relations between fractions, decimals and percentages
Algebra without Anxiety - Brackets	Hamish McAlley	11	One bracket expansions Factorising with a common factor Expanding 2 brackets, FOIL Factorising quadratics Factorising advanced quadratics
Algebra without Anxiety – MCAT1 Achieved level	Hamish McAlley	11	Finding substitution solutions What is a formula?, Changing the subject Solving quadratic equations Simplifying fractions formed by quadratic expressions How to solve linear and quadratic inequations
Algebra without Anxiety- MCAT 2 Merit and Excellence	Hamish McAlley	11	Solving equations where the variable is an exponent Finding area and perimeter when dimensions are algebraic expressions Solve simultaneous equations using the substitution method Intersections of non-straight lines, Complicated or unorthodox problems Unearthing the equations and expressions from word problems
Wellbeing creating Resilience	Kaz Pollard	13+	Resilience Wellbeing Course 21 days including Changing the Narrative, Big or small stresses, Self-awareness skilling, Life's ups and downs. A snapshot for each day. Creating resilience- life changing!

Presentation Skills – Topic 1; Importance of Presentation skills	Dr Siham El-Kafafi	Secondary Adult	Topic 1 – Importance of Presentations. Presentation definition – aspects and forms of Presentations Glosphobia – Fear of public speaking Importance of presentation skills and Reflections.
Presentation skills – Topic 2; Body language	Dr Siham El-Kafafi	Secondary Adult	Body language; Facial expressions Posture Gestures Descriptive gestures, Eye contact
Essay Writing with Style.	Andrew Lacey	Secondary Adult	Failing because of your lack of knowledge is not an option. Andrew is here to help! What does essay writing look like? Three main parts of an essay. Structure: Introduction, Body, Conclusion. Writing with style! Content.
Reading with wings.	Penelope Corbett	Level 4 Primary	Folk and fairy tales Reading comprehension. Targeting 3 levels of comprehension to enhance and develop the skills required for reading comprehension.
Reading with wings	Penelope Corbett	Level 3 Primary	Folk Tale collection Aesop's fable, The Taniwha and Boy who cried wolf for comprehension
Reading with wings	Penelope Corbett	Level 2 Primary	Nursery rhymes – introduction to rhymes for comprehension.

Happy to answer any questions on these Collections - Jean, Mob 0211335161 or info@impacttutoring.co.nz