

4th Year Maths (H) Academy

Week	Topic	Content
1: Sept 1st	Algebra	Evaluating Simplifying Solving Linear Equations Inequalities
2: Sept 8th	Algebra	Solving Quadratics Isolating a letter Simultaneous Equations
3: Sept 15th	Algebra	Indices Index Equations Exam Questions
4: Sept 22nd	Complex Numbers	Real and Imaginary Numbers Addition/Subtraction/Multiplication/ Division
5: Sept 29th	Complex Numbers	Complex Quadratics Argand Diagrams Modulus
6: Oct 6th	Complex Numbers	Transformations Exam Questions
7: Oct 13th	Statistics	Data Statistical Theory Collecting Data Measures of Central Tendency
8: Oct 20th	Statistics	Measures of Spread Standard Deviation Empirical Rule Displaying Data
Mid Term Break		
9: Nov 3rd	Statistics	Scatter Graphs Correlation Hypothesis Testing
10: Nov 10th	Statistics	Exam Questions
11: Nov 17th	Probability	Arrangements Permutations Sample Spaces Expected Frequency
12: Nov 24th	Probability	And and Or Rule Bernoulli Trials

		Expected Value
13: Dec 1st	Trigonometry	Pythagoras Trig Functions Area of a triangle Sine Rule
Christmas Break		
14: Jan 5th	Trigonometry	Cosine Rule Sector of a Circle Exam Questions
15: Jan 12th	The Line	Distance/Midpoint/Slope/Equation Area of a triangle Exam Questions
16: Jan 19th	The Circle	Equation of a Circle Points in, on, outside Points of Intersection of a line and a circle
17: Jan 26th	The Circle	Equation of a Tangent Exam Questions
18: Feb 2nd	Geometry	Angles and Triangles Terms Theorems Constructions
19: Feb 9th	Geometry	Transformations Enlargements Exam Questions
Mid Term Break		
20: Feb 23rd	Functions	What is a function? Graphing Functions- linear, quadratic, cubic and exponential
21: March 2nd	Functions	Max/Min Values Finding coefficients Quadratic real life graphs Exam Questions
22: March 9th	Calculus	Finding the derivative Equation of the Tangent Max and Min turning points
23: March 16th	Calculus	Rate of Change Graphs of functions
24: March 23rd	Calculus	Sketching a curve Exam Questions
Easter Break		

25: April 13th	Number Systems/Arithmetic	Types of numbers Primes Scientific Notation Calculating Pay
26: April 20th	Arithmetic	Compound Interest AER Depreciation Exam Questions
27: April 27th	Area and Volume	Cubes Spheres Cylinders Cones Nets Exam Questions
28: May 4th	Patterns and Sequences	Linear Patterns Finding the nth term Quadratic Patterns Exam Questions
29: May 11th	Exam Preparation	Exam Strategy