

2019 Maths Winter School Timetable

Mon-24 June		Tue-25 June		Wed-26 June		Thu-27 June	
09:00 – 10:00	Algebra Equations The formula & completing the square Inequalities Exponential equations	Trig part II Equations Graphs 2D trig	Statistics Five number summary Ogives Standard deviation Scatter plots Linear regression Correlation	Analytical Geometry Gradient and inclination Midpoint Distance formula Equation of straight lines Properties of quads			
Break							
10:15 – 11:15	Finance Effective and nominal interest rates Timelines Depreciation Future Value annuities Present value Annuities	Trig part II Compound angles Double angles 3D trig	Functions and Inverses Quadratic function Hyperbolic function Exponential function	Analytical Geometry Equation of a circle			
Break							
11:30 – 12:30	Euclidian Geometry Line segment through centre and midpoint Angle at centre is twice the angle at the circumference Line drawn parallel to one side of a triangle	Euclidean Geometry Angles in the same segment are equal Opposite angles on a cyclic quad Midpoint revision & Similarity	Functions and Inverses Exponential Inverses	Probability Mutually exclusive events Complimentary events Dependent and independent events Venn & tree diagrams Fundamental counting principle			
Break							
13:00 – 14:00	Trig part I Ratios Reduction formulae Special angles Identities	Number Patterns Arithmetic sequences Quadratic sequences Geometric sequences & Series	Euclidean Geometry Tangents from the same point Tan chord theorem	Euclidean Geometry Mixed examples			
Break							
14:15 – 15:00	Calculus Differential calculus	Calculus Cubic functions	Calculus Optimization				

*Students registering for all courses are required to bring their own stationary and calculators.

Please note that refreshments are not included for the duration of the day and students are required to bring their own lunch.