

Alford Academy - CfE Higher Mathematics Revision Planner 2019

Week	Topic	Video Links	Skills Practice
28 th January 2019	E&F 1.1 Logarithmic & Exponential Expressions Pages 69-91 Exam Questions	Logs and Exponentials 1 - Introduction Logs and Exponentials 2 - Laws of Logarithms Logs and Exponentials 3 - The Exponential Function Logs and Exponentials 4 - Experimental Data Logs and Exponentials 5 - Graph Transformations	Skills 1-20 Answers Objective Testing 1
4 th February 2019	E&F 1.2 Compound & Multiple Angles (Addition Formulae) Pages 105-113 Exam Questions	Trigonometry 4 - Addition Formulae Trigonometry 5 - Double Angle Formulae Trigonometry 7 - Trigonometric Identities	Skills 21-40 Answers Objective Testing 1
11 th February 2019	E&F 1.2 Wave Function Pages 117-123 Exam Questions	Wave Function 1 - Introduction Wave Function 2 - All Forms Wave Function 3 - Multiple Angles Wave Function 4 - Maximum and Minimum Values Wave Function 5 - Sketching Graphs	Skills 41-60 Answers Objective Testing 1
18 th February 2019	E&F 1.3 Functions Pages 129-149 Exam Questions – Functions Exam Questions - Graphs	Functions and Graphs 1 - Domains and Ranges Functions and Graphs 2 - Composite Functions Functions and Graphs 3 - Inverse Functions Functions and Graphs 4 - Exponentials and Logarithms Functions and Graphs 5 - Transformation of Graphs	Skills 61-80 Answers Objective Testing 1

Week	Topic	Video Links		Skills Practice
25 th February 2019	E&F 1.4 Vectors Pages 150-166 Exam Questions	Vectors 1 - Unit Vectors Vectors 3 - Basis Vectors Vectors 5 - Dividing a Line Vectors 7 - Scalar Product Components Vectors 9 - Perpendicular Vectors	Vectors 2 - Position Vectors Vectors 4 - 3D Collinearity Vectors 6 - Scalar Product Vectors 8 - Angle Between Vectors Vectors 10 - Properties of Scalar Products	Skills 81-100 Answers Objective Testing 1
4 th March 2019	R&C 1.1 Polynomials Pages 30-51 Exam Questions – Poly's Exam Questions – Quad's	Polynomials 1 - Introduction Polynomials 3 - Factorising Polynomials Polynomials 5 - Solving Equations Quadratics 1 - Completing the Square Quadratics 3 - The Discriminant Quadratics 5 - Intersecting Parabolas and Lines	Polynomials 2 - Dividing Polynomials Polynomials 4 - Finding Unknown Coefficients Polynomials 6 - Finding Functions From Graphs Quadratics 2 - Inequations Quadratics 4 - Using the Discriminant	Skills 101-120 Answers Objective Testing 2
4 th March 2019	R&C 1.2 Trig-Radians & Exact Values Trig Equations Pages 101-103 Pages 114-116 Pages 124-128 Exam Questions	Trigonometry 1 - Radians Trigonometry 2 - Exact Values Trigonometry 3 - Trig Equations 1 Trigonometry 6 - Trig Equations 2 Wave Function 6 - Solving Equations		Skills 121-140 Answers Objective Testing 2

Week	Topic	Video Links		Skills Practice
11 th March 2019	R&C 1.3 Differentiation Pages 167-200 Exam Questions Further Calculus Questions	Differentiation 1 - Introduction Differentiation 3 - Complex Differentiation Differentiation 5 - Leibniz Notation Differentiation 7 - Incr and Decr Functions Differentiation 9 - Curve Sketching Differentiation 11 - Derived Graphs Further Calculus 1 - sin and cos	Differentiation 2 - Fractions and Roots Differentiation 4 - Applications of Derivatives Differentiation 6 - Equation of Tangents Differentiation 8 - Stationary Points Differentiation 10 - Closed Intervals Differentiation 12 - $\sin x$ and $\cos x$ Further Calculus 2 - Chain Rule	Skills 141-160 Answers Objective Testing 2
18 th March 2019	R&C 1.4 Integration Pages 201-219 Exam Questions Further Calculus Questions	Integration 1 - Introduction Integration 2 - Further Examples Integration 3 - Differential Equations Integration 4 - Definite Integrals Integration 5 - Area Under a Curve Further Calculus 3 - Integrating by Inversing Chain Rule		Skills 161-180 Answers Objective Testing 2
25 th March 2019	Apps 1.1 Straight Lines Pages 1-18 Exam Questions	Straight Line 1 - Gradient Revision Straight Line 3 - Midpoints Straight Line 5 - Collinearity Straight Line 7 - Equation of a Line Straight Line 9 - Altitudes Straight Line 11 - Points of Intersection	Straight Line 2 - Distance Between Points Straight Line 4 - Gradient from Angle Straight Line 6 - Perpendicular Gradients Straight Line 8 - Perpendicular Bisectors Straight Line 10 - Medians	Skills 181-200 Answers Objective Testing 2

Week	Topic	Video Links	Exam Practice
1 st April 2019	Apps 1.2 Circles Pages 52-68 Exam Questions	Circles 1 - Equations of Circles Circles 2 - General Equation Circles 3 - Equations of Tangents Circles 4 - Lines Intersecting Circles Circles 5 - Intersecting Circles	Past Papers
8 th April 2019	Apps1.3 Recurrence Relations Pages 19-29 Exam Questions	Recurrence Relations 1 - Introduction Recurrence Relations 2 - Limit of a Sequence Recurrence Relations 3 - Finding RR from a Sequence	Past Papers
15 th April 2019	Apps 1.4 Applying Calculus Pages 220-249 Exam Questions - Diff Exam Questions - Int	Differentiation 13 - Optimisation Integration 6 - Area Between Curves	Past Papers

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
22 nd April 2019	Past Papers	Day Off	Skills Practice	Past Papers	Day Off	Skills Practice	Day Off
22 nd April 2019	Past Papers & Skills Practice	Day Off	Past Papers & Skills Practice	Day Off	Past Papers & Skills Practice	Day Off	Past Papers & Skills Practice
29 nd April 2019	Day Off	Past Papers & Skills Practice	Day Off	CfE Higher Exam	Next subject		