

Alford Academy National 5 Mathematics Revision Planner 2019

Week	Monday & Tuesday	Wed.	Thursday & Friday	Sat.	Sunday
28/01/2018	E&F 1.1a Working with Surds <ul style="list-style-type: none"> Simplifying Surds Adding & Subtracting Surds Rationalising the Denominator Questions Answers	Day Off!	E&F 1.1b Working with indices <ul style="list-style-type: none"> Negative indices Multiplying with the same base Dividing with the same base Powers of Powers Fractional Indices Laws of Indices Questions Answers Fractional/Negative Questions Answers	Day Off!	E&F 1.2a Expanding Brackets <ul style="list-style-type: none"> Expanding 1 bracket Expanding 2 brackets Expanding 3 brackets Questions 1 bracket Answers Questions 2 brackets Answers Questions 3 brackets Answers
04/02/2018	E&F 1.2b Factorising <ul style="list-style-type: none"> Remove Highest Common Factor Difference of 2 Squares Trinomials (Wendy's Way) Easy Trinomials Common Factors questions Answers DoTS & Trinomials questions Answers	Day Off!	E&F 1.3 Algebraic Fractions <ul style="list-style-type: none"> Simplifying Algebraic Fractions Add & Subtract Algebraic Fractions Algebraic Fractions Questions Answers	Day Off!	E&F 1.2c Completing the square <ul style="list-style-type: none"> Completing the Square Comp the Square questions Answers
11/02/2018	E&F 1.4b Fraction of a Circle <ul style="list-style-type: none"> Arc Length Sector Area Finding the Angle Arc questions Answers Sector questions Answers	Day Off!	E&F 1.4c Volumes of solids <ul style="list-style-type: none"> Cone Video Cone qus Answers Sphere Video Sphere qus Answers Cylinder Video Cylinder qus Answers 	Day Off!	E&F 1.4d Rounding & Sci Not Rounding <ul style="list-style-type: none"> Video Questions Answers Scientific notation <ul style="list-style-type: none"> Video Question Answers
18/02/2018	E&F 1.4a Gradient of a line <ul style="list-style-type: none"> Gradient Between 2 points Gradient questions Answers	Day Off!	REL 1.1a Equation of a Straight Line <ul style="list-style-type: none"> Discovering $y = mx + c$ Horizontal & Vertical Lines Using $y - b = m(x - a)$ Equation of a Straight Line Answers Parallel lines Answers	Day Off!	REL 1.1b Functions <ul style="list-style-type: none"> An Introduction to Functions Functional Notation $f(x)$

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25/02/2018	REL 1.2 Quadratic Graphs <ul style="list-style-type: none"> • Sketching Quadratic Functions • Using Completing the Square to Sketch Quadratic Functions Quadratic graphs	Day Off!	REL 1.3a Quadratic Equations <ul style="list-style-type: none"> • Solving Quadratic Equations • The Quadratic Formula • Constructing Quadratic Equations Factorise to solve Answers Formula to solve Answers	Day Off!	REL 1.3b Nature of Quad Roots <ul style="list-style-type: none"> • Determining the Nature of Roots (Using the Discriminant) BBC Bitesize notes & quiz
04/03/2018	REL 1.4a Pythagoras Theorem <ul style="list-style-type: none"> • Pythagoras – Introduction • Pythagoras – Repeated use • Pythagoras –Distance between two points • Pythagoras in disguise • Converse of Pythagoras • Chords, Bisectors & Pythagoras Theorem 3D Answers Circles Converse Answers	Day Off!	REL 1.4c Using Similarity <ul style="list-style-type: none"> • Similar Triangles • Area of Similar Shapes • Volume of Similar Shapes Similar shapes Answers Similar area/volume Answers	Day Off!	REL 1.4b Shapes & Angles <ul style="list-style-type: none"> • Angles in Circles • Angles in Polygons Shapes & Angles
11/03/2018	REL 1.5a Trigonometric Graphs <ul style="list-style-type: none"> • Trig Graphs (Amplitude) • Trig Graphs (Period) • Trig Graphs (Vertical Shift) • Trig Graphs (Horizontal Shift) Trigonometric Graphs	Day Off!	REL 1.5b Trigonometric Equations <ul style="list-style-type: none"> • Solving Trig Equations Trigonometric Equations	Day Off!	REL 1.5b Trigonometric Equations <ul style="list-style-type: none"> • Trig Identities Identities questions
18/03/2018	Apps 1.1 Non-RAT Trigonometry <ul style="list-style-type: none"> • The Sine Rule – Find Missing Angle • The Sine Rule – Finding a Missing Side • The Cosine Rule – Find Missing Angle • The Cosine Rule – Find Missing Side • Area of a Triangle • Using Bearings with Trigonometry Non-RAT Trig. Answers	Day Off!	Apps 1.2 Vectors <ul style="list-style-type: none"> • An Introduction to Vectors • Alternative Routes • Magnitude of 2D & 3D Vectors • Scalar Multiplication 2D Vectors Answers 3D Vectors	Day Off!	Apps 1.3a Percentages <ul style="list-style-type: none"> • Appreciation & Depreciation • Compound Interest • Percentage Profit & Percentage Loss • Reverse Percentage Compound questions Answers Reverse % questions Answers Percentage changes Answers

25/03/2018	Apps 1.3b Working with Fractions <ul style="list-style-type: none"> • Adding & Subtracting • Multiplying • Dividing 	Day Off!	Apps 1.4 Statistics <ul style="list-style-type: none"> • Standard Deviation • Five Figure Summaries & Spread of Data 	Day Off!	Whole course review starts <ul style="list-style-type: none"> • Skills practice • Notes, Mind Maps, Rev Cards & Post-Its • Exam Practice
	Adding & subtracting qus Answers Multiplying & dividing qus_ Answers		Standard deviation Scattergraphs Statistics		

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01/04/2018	Skills practice 1 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!	Skills practice 2 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!	Skills practice 3 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!	Skills practice 4 Notes, Mind Maps, Revision Cards & Post-Its
08/04/2018	Day Off!	Skills practice 5 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!	Skills practice 6 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!	Skills practice 7 Notes, Mind Maps, Revision Cards & Post-Its	Day Off!
15/04/2018	Skills practice 8 Past Papers	Day Off!	Skills practice 9 Past Papers	Day Off!	Skills practice 10 Past Papers	Day Off!	Past Papers
22/04/2018	Day Off!	Past Papers	Day Off!	Past Papers	Day Off!	Past Papers	Day Off!
29/04/2018	Past Papers	Day Off!	Past Papers	Day Off!	National 5 Mathematics Exam	Skills Practice Answers	