(Mathematics) Curriculum Overview 2018-19

Atlantic Academy
Part of the Launceston College Multi Academy Trust

Year 11 Higher (7 hours a fortnight)

Term 1		Term 2		Term 3	
Topics: Pythagoras' theorem. Basic trigonometry. Quadratic Equations Scatter graphs	Circle theorems MOCKS Direct and Inverse proportion. Simultaneous equations. Construction and Loci	**Topics:** Equation of a circle. Functions. Volume, Vectors. Sketching Graphs.	Numerical methods. Sine and cosine rules. Algebraic fractions. Transforming functions. Further equations and graphs.	**Topics:** Revision.	

Year 11 Foundation (7 hours a fortnight)

Term 1		Term 2		Term 3	
Topic: Indices Standard Form Linear equations Statistical measures Transofrmations	Similarity & Congruence Plans & Elevation Measures Volume Scatter graphs Fraction/decimal conversion	**Topic:** Formulae Identities Linear graphs Graph sketching Inequalities	Simultaneous Equations Pythagoras' Theorem Trigonometry Quadratics Solving Quadratics Sketching Quadratics	**Topic:** Focused revision	

Year 10 (7 hours a fortnight)

Term 1		Term 2		Term 3	
Place Value Number properties Mental arithmetic Written arithmetic Order of Operations Identifying a hypothesis Data properties Data collections Data representation	Simplify, expand & factorise Constructing expressions, equations & formulae Substitution Solving equations/inequalities Simultaneous Equations Angles & Lines 2D/3D shapes Circles Similarity &Congruence	Averages & Spread Data Interpretation Sequences	Sequences Transformations Rounding Checking answers Special numbers Standard Form	Simple Functions Plottings graphs Finding solutions from graphs Real life graphs Measures Time Constructions Bearing & scales Perimeter & Area Surface Area & Volume	Fractions, Decimals & Percentages - Conversions and calculations Ratio & Proportion Probability scale & language Outcomes & combined probability Theoretical and experimental probability

Year 9 (7 hours a fortnight)

Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Place Value Number properties Mental arithmetic Written arithmetic Order of Operations Identifying a hypothesis Data properties Data collections Data representation	Simplify, expand & factorise Constructing expressions, equations & formulae Substitution Solving equations/inequalities Simultaneous Equations Angles & Lines 2D/3D shapes Circles Similarity &Congruence	Averages & Spread Data Interpretation Sequences	Sequences Transformations Rounding Checking answers Special numbers Standard Form	Simple Functions Plottings graphs Finding solutions from graphs Real life graphs Measures Time Constructions Bearing & scales Perimeter & Area Surface Area & Volume	Fractions, Decimals & Percentages - Conversions and calculations Ratio & Proportion Probability scale & language Outcomes & combined probability Theoretical and experimental probability

Year 8 (7 hours a fortnight)					
Term 1a	**Term 1b**	**Term 2a**	**Term 2b**	**Term 3a**	**Term 3b**
Place Value Number properties Mental arithmetic Written arithmetic Order of Operations Identifying a hypothesis Data properties Data collections Data representation	Simplify, expand & factorise Constructing expressions, equations & formulae Substitution Solving equations/inequalities Simultaneous Equations Angles & Lines 2D/3D shapes Circles Similarity &Congruence	 Averages & Spread Data Interpretation Sequences	Sequences Transformations Rounding Checking answers Special numbers Standard Form	Simple Functions Plottings graphs Finding solutions from graphs Real life graphs Measures Time Constructions Bearing & scales Perimeter & Area Surface Area & Volume	Fractions, Decimals & Percentages - Conversions and calculations Ratio & Proportion Probability scale & language Outcomes & combined probability Theoretical and experimental probability
Year 7 (7 hours a fortnight)					
Term 1a	**Term 1b**	**Term 2a**	**Term 2b**	**Term 3a**	**Term 3b**
Place Value Number properties Mental arithmetic Written arithmetic Order of Operations Identifying a hypothesis Data properties Data collections Data representation	Simplify, expand & factorise Constructing expressions, equations & formulae Substitution Solving equations/inequalities Simultaneous Equations Angles & Lines 2D/3D shapes Circles Similarity &Congruence	 Averages & Spread Data Interpretation Sequences	Sequences Transformations Rounding Checking answers Special numbers Standard Form	Simple Functions Plottings graphs Finding solutions from graphs Real life graphs Measures Time Constructions Bearing & scales Perimeter & Area Surface Area & Volume	Fractions, Decimals & Percentages - Conversions and calculations Ratio & Proportion Probability scale & language Outcomes & combined probability Theoretical and experimental probability