

MCS IB AA SL Y1 - Subject Group Overview

Unit Name	Topic 1: Numbers & Algebra	Topic 2: Functions	Topic 3: Geometry & Trigonometry	Topic 4: Probability & Statistics	Internal Assessment
Time Frame	4 weeks	8 - 9 weeks	7 - 8 weeks	5 - 6 weeks	4 weeks
Standards/ IB Topics	Topic 1: SL 1.1 – 1.9	Topic 2: SL 2.1 – 2.10	Topic 3: SL 3.1 – 3. 8	Topic 4: SL 4.1 – 4.12	Students will work to complete their Math Exploration Paper
Content Specific Information	1.1 Operations with numbers in scientific notation form 1.2 Arithmetic Sequences 1.3 Geometric Sequences 1.4 Financial Applications of Geometric Sequences 1.5 Laws of Exponents 1.6 Algebraic Proofs 1.7 Properties of Logs 1.8 Sum of Geometric Sequences 1.9 Binomial Theorem	2.1 Linear Equations, Parallel, Perpendicular Lines 2.2 Domain, Range, Inverses 2.3 Graphs of Functions 2.4 Key features of Graphs 2.5 Composite functions 2.6 Quadratic Functions 2.7 Quadratic Equations & Inequalities, discriminant 2.8 Rational Functions & Equations 2.9 Exponential & Log Functions 2.10 Solving all equations	3.1 Distance, midpoint, volume 3.2 Sine, Cosine, Tangent Ratios, Sine Rule, Cosine Rule & Area of a Triangle 3.3 SOH CAH TOA applications 3.4 Unit Circle 3.5 Sine, Cosine, Tangent in terms of unit circle, radians 3.6 Trig Identities 3.7 Circular Functions 3.8 Solving Trig Equations	4.1 Population, samples, outliers 4.2 Presentation of data, box-whisker plots, histograms 4.3 Measures of central tendency & dispersion, 4.4, 4.10 Linear Regression 4.5 Probability of Events 4.6, 4.11 Conditional, independent, dependent probability 4.7 Expected Value 4.8 Binomial distribution 4.9, 4.12 Normal distribution	
Common Assessments / Performance Projects	Common Homework Quizzes Common Formative Assessments Common Summative Assessment	Common Homework Quizzes Common Formative Assessments Common Summative Assessment	Common Homework Quizzes Common Formative Assessments Common Summative Assessment	Common Homework Quizzes Common Formative Assessments Common Summative Assessment	Internal Assessment
Differentiation For Tiered Learners	Marietta City Schools teachers provide specific differentiation of learning experiences for all students. Details for differentiation for learning experiences are included on the district unit planners.				