## Ms. Lauren Yearly Plan 2022-2023

August 30, 2022-November 3, 2022	November 6, 2022-January 19, 2023	January 22, 2023-March 20, 2023	March 21, 2023-June 3, 2023
Unit 1: Functions         •       1.1 Functions and Function Notation         •       1.2 Domain and Range         •       1.3 Rates of Change and Behavior of Graphs         •       1.4 Composition of Functions         •       1.4 Composition of Functions         •       1.4 Composition of Functions         •       1.6 Absolute Value Functions         •       1.6 Absolute Value Functions         •       1.7 Inverse Functions         •       2.1 Linear Functions         •       2.1 Linear Functions         •       2.2 Graphs of Linear Functions         •       2.3 Modeling with Linear Functions         •       2.4 Fitting Linear Models to Data         Unit 3: Polynomial and Rational Functions       3.1 Complex Numbers         •       3.2 Quadratic Functions         •       3.2 Quadratic Functions         •       3.4 Graphs of Polynomial Functions         •       3.4 Graphs of Polynomials         •       3.6 Zeros of Polynomials         •       3.6 Zeros of Polynomial Functions         •       3.8 Inverses and Radical Functions	Unit 4: Exponential and Logarithmic Functions <ul> <li>4.1 Exponential Functions</li> <li>4.2 Graphs of Exponential Functions</li> <li>4.3 Logarithmic Functions</li> <li>4.4 Graphs of Logarithmic Functions</li> <li>4.5 Logarithmic Properties</li> <li>4.6 Exponential and Logarithmic Equations</li> <li>4.7 Exponentials and Logarithmic Models</li> </ul> Unit 5: Trigonometric Functions <ul> <li>5.1 Angles</li> <li>5.2 Unit Circle: Sine and Cosine Functions</li> <li>5.4 Right Triangle Trigonometry</li> </ul> Unit 6: Periodic Functions <ul> <li>6.1 Graphs of Sine and Cosine Functions</li> <li>6.2 Graphs of the Other Trigonometric Functions</li> <li>6.3 Inverse Trigonometric Functions</li> </ul>	<ul> <li>Unit 7: Trigonometric Identities and Equations <ul> <li>7.1 Solving Trigonometric Equations with Identities</li> <li>7.2 Sum and Difference Identities</li> <li>7.3 Double-Angle, Half-Angle, and Reduction Formulas</li> <li>7.4 Sum-to-Product and Product-to-Sum Formulas</li> <li>7.5 Solving Trigonometric Equations</li> <li>7.6 Modeling with Trigonometric Equations</li> </ul> </li> <li>Unit 9: Systems of Equations and Inequalities <ul> <li>9.1 Systems of Linear Equations: Two Variables</li> <li>9.2 Systems of Linear Equations: Three Variables</li> <li>9.3 Systems of Nonlinear Equations and Inequalities:</li> <li>9.4 Partial Fractions</li> <li>9.5 Matrices and Matrix Operations</li> </ul> </li> </ul>	Unit 10: Analytic Geometry 10.1 The Ellipse 10.2 The Hyperbola 10.3 The Parabola 10.4 Rotation of Axes Unit 11: Sequences, Probability, and Counting Theory 11.1 Sequences and Their Notations 11.2 Arithmetic Sequences 11.3 Geometric Sequences 11.4 Series and Their Notations 11.5 Counting Principles 11.6 Binomial Theorem 11.7 Probability Unit 12: Introduction to Calculus 12.1 Finding Limits: Numerical and Graphical Approaches 12.2 Finding Limits: Properties of Limits 12.4 Derivatives