2026-2027 Algebra 2 Year-At-A-Glance

Term 1	Term 2	Term 3	Term 4
Algebra 1 Functions and Foundations • Solving 1 and 2 variable equations and inequalities • Inverse Functions and verifying inverses with compositions • Domain and Range (Set, Interval and Inequality Notations) Time:3.5 weeks HMH Lesson: 1.1, 13, 1.4 **Absolute Value Functions, Equations, and Inequalities** • Absolute Value Functions/Transformations • Solve Absolute Value Equations/Inequalities Time:1.5 weeks HMH Lesson: 2.1, 2.2, 2.3 **Quadratic Functions** • Graphing Quadratic Functions and Transformations Time:1.5 weeks HMH Lesson: 3.1, 3.2, 5.1	**Quadratic Equations** •Write Quadratic Equations/Key Attributes/Standard and Vertex Form Quadratic Regression •Factoring Review •Solve Quadratic Equations (Factoring, Square Root, Graphing, Completing the Square, Quadratic Formula) •Solve Quadratic Inequalities •Complex Numbers Time:4 weeks HMH Lesson: 3.1, 3.2, 3.3, 4.1, 4.2, 4.3, 4.4 **Systems of Equations** •Solve Systems of Equations (Two and Three): Substitution •Elimination and Matrices with Technology •Solve Systems of Linear Inequalities •Linear and Quadratic Systems: Graphically •Applications of Systems Equations and Inequalities Time:4 weeks HMH Lesson: 5.2, 5.3, 5.4 **Semester Exam**	**Polynomial Equations** • Polynomial Division and Factoring • Polynomial Operations (Add, Subtract, Multiply, Factor GCF) Time:2.5 weeks HMH Lesson: 7.1, 7.2, 7.3, 7.4 **Cubic Functions and Equations** • Graphs/Cubic Functions/Transformations Time:1.5 weeks HMH Lesson: 6.1, 9.1, 9.2, 9.3 **Rational Functions and Equations** • Graphs of Rational Functions/Transformations • Solve/Formulate Rational Equations • Rational Expressions Time:2 weeks HMH Lesson: 10.1, 10.2, 10.3 **Inverses** • Find equations and graph inverses of Linear, Quadratic, Cubic Functions Time:1 week HMH Lesson: 11.1, 11.2	**Radicals** • Simplified • Graph cube root and square root functions • Solved radical equations • Solved equations with rational exponents Time:1 week HMH Lesson: 12.1, 12.2 **Exponential Functions and Equations** • Geometric Sequences • Graphs of Exponential Functions/Transformations • Solve/Formulate Exponential Equations • Inverses and verifying inverses with compositions (Bridge to Logarithms) Time:1.5 weeks HMH Lesson: 13.1, 13.2, 13.3, 13.4 **Logarithmic Functions and Equations** • Definition of Logarithm/Solve Log Equations • Graphs of Logarithmic Functions/Transformations • Inverse and verifying inverses with compositions/Applications Time:3 weeks HMH Lesson: 15.1, 15.2, 16.1, 16.2, 16.3 **Semester Exam**

*HMH TX Algebra 2 can be accessed via Clever.
Timeframes may vary slightly based on student needs.