



Presented by the Dyscalculia Training & Research Institute

Algebra 2
Pacing Guide

Use this pacing guide to help you keep track of your work.

<u>Unit</u>	<u>Topic</u>	<u>Completed</u>
Unit 1	<u>Week 1, Expressions</u> Parts of an Expression & Combining Like Terms Monomials and Polynomials Degree of an Expression Terms and Parts of an Expression	
	<u>Week 2, Polynomials</u> Adding Polynomials Subtracting Polynomials Multiply and Divide Polynomials Laws of Exponents Unit 1 Test	
Unit 2	<u>Week 1, Linear Equations</u> Solve Linear Equations Key Features of Linear Graphs Slope-Intercept Form and Standard Form Graph Linear Equations	
	<u>Week 2, Linear Inequalities</u> Inequalities Review Solve Linear Inequalities Graph Linear Inequalities Unit 2, Week 2 Test	
	<u>Week 3, Equations & Graphs</u> Quadratic, Cubic, and Quartic Functions Absolute Value, Rational, and Root Functions Domain of Functions Range of Functions	
	<u>Week 4, Transformations</u> Horizontal and Vertical Transformations Stretch, Compression, Reflection Transforming Quadratic Functions Transforming Cubic Functions	
	<u>Week 5, Transformations</u> Horizontal and Vertical Movement Stretch, Compression, Reflection Transforming Circles Unit 2, Week 5 Test	
Unit 3	<u>Week 1, Roots & Parabolas</u> Factoring Review Roots Graphing Parabolas	
	<u>Week 2, Features of Polynomials</u> Fundamental Theorem and Descartes' Rule of Signs	

	Intercepts of Polynomials End Behavior of Polynomials Unit 3, Week 2 Test	
	<u>Week 3, Rational Expressions</u> Graphing Root Functions Simplify Rational Expressions Graphing Rational Expressions	
	<u>Week 4, Exponential Functions</u> Exponential Graphs Growth and Decay Exponential Functions Word Problems Unit 3, Week 4 Test	
Unit 4	<u>Week 1, Synthetic Division</u> The Remainder Theorem Synthetic Division Synthetic Division with Fractions	
	<u>Week 2, Polynomial Long Division</u> Long Division Review Polynomial Long Division Polynomial Long Division with Remainders	
	<u>Week 3, Binomial Expansion</u> Pascal's Triangle Using Pascal's Triangle Expand $(x - 1)$ Fractals	
	<u>Week 4, Intervals</u> Interpreting Graphs at an x-value Naming the Increase Interval Naming the Decrease Interval Relative Maximum and Minimum	
	<u>Week 5, Domain & Range</u> Domain of a Function Range of a Function Average Rate of Change	
Unit 5	<u>Week 1, Vectors</u> Domain of a Function Range of a Function Semester One Review Semester One Test	
	<u>Week 2, Matrix</u> Reading a Piecewise Function Graphing a Piecewise Function Domain and Range of a Piecewise Function Solving a Piecewise Function	
	<u>Week 3, Matrix Operations</u> Find and Graph Constraints from a Word Problem Graph a Set of Constraints Find Maximum and Minimum Values Unit 5, Week 2 Test	
	<u>Week 4, Matrices</u> Matrix Components Naming Matrix Elements Matrix and Systems of Equations Unit 5, Week Test	

	<u>Week 5, Operations with a Matrix</u> Add Matrices Subtract Matrices Multiply Matrices	
	<u>Week 6, Determinant</u> Determinant of a Matrix Solve a System with Cramer's Rule Unit 5, Week 6 Test	
Unit 6	<u>Week 1, Imaginary Numbers</u> Imaginary Numbers Patterns of i Complex Numbers	
	<u>Week 2, Complex Numbers</u> Add and Subtract Complex Numbers Multiply Complex Numbers Divide Complex Numbers	
	<u>Week 3, Conjugates</u> Conjugates FOIL Complex Numbers Complex Numbers in Denominators Unit 6 Test	
Unit 7	<u>Week 1, Logs</u> Log Form Exponential Form Evaluate Logs Evaluate Logs, Part 2	
	<u>Week 2, Rules of Logs</u> Expand Logs Condense Logs Rules of Logs Rewrite Using Change of Base Solve Using Change of Base Unit 7, Week 2 Test	
Unit 8	<u>Week 1, Unit Circle</u> The Unit Circle in Degrees The Unit Circle in Radians Convert Radians to Degrees Convert Degrees to Radians	
	<u>Week 2, Trig Functions</u> Sine Cosine Tangent Unit 8, Week 2 Test	
	Semester Two Review, Part 1 Semester Two Review, Part 2 Semester Two Exam	