

Course Syllabus - Online Algebra 2

Week	What to do during the week	What to turn in
Week 1	<input type="checkbox"/> 1.1: Real Numbers and Number Operations <input type="checkbox"/> 1.2: Algebraic Expression <input type="checkbox"/> 1.3: Linear Equations <input type="checkbox"/> HW 1A <input type="checkbox"/> 1.4: Rewriting Equations <input type="checkbox"/> HW 1B	HW 1A HW 1B
Week 2	<input type="checkbox"/> 1.5: Modeling Real World Problems <input type="checkbox"/> 1.6: Solving Linear Inequalities <input type="checkbox"/> 1.7: Absolute Value and Inequalities <input type="checkbox"/> HW 1C (Honors) <input type="checkbox"/> Chapter 1 Test	HW 1C (Honors) Test on Chapter 1
Week 3	<input type="checkbox"/> 2.1: Functions and Graphs <input type="checkbox"/> 2.2: Slope <input type="checkbox"/> HW 2A <input type="checkbox"/> 2.3: Graphing Linear Equations <input type="checkbox"/> HW 2B <input type="checkbox"/> 2.4: Finding Equations of Lines <input type="checkbox"/> HW 2C <input type="checkbox"/> HW 2D	HW 2A HW 2B HW 2C HW 2D
Week 4	<input type="checkbox"/> 2.5: Best Fit Lines <input type="checkbox"/> HW 2E <input type="checkbox"/> 2.6: Linear Inequalities <input type="checkbox"/> HW 2F <input type="checkbox"/> 2.7: Piecewise Functions <input type="checkbox"/> 2.8: Absolute Value Functions <input type="checkbox"/> HW 2G <input type="checkbox"/> HW 2H (Honors) <input type="checkbox"/> Chapter 2 Test	HW 2E HW 2F HW 2G HW 2H (Honors) Test on Chapter 2
Week 5	<input type="checkbox"/> 3.1: Graphical Solutions to Linear Systems <input type="checkbox"/> 3.2: Algebraic Solutions to Linear Systems <input type="checkbox"/> HW 3A	HW 3A
Week 6	<input type="checkbox"/> 3.3: Graphical Solutions to Inequalities <input type="checkbox"/> 3.4: Graphing in 3 Dimensions <input type="checkbox"/> HW 3B <input type="checkbox"/> 3.5: Solving Systems in 3 Dimensions <input type="checkbox"/> Chapter 3 Test	HW 3B Test on Chapter 3
Week 7	<input type="checkbox"/> 4.1: Graphing Quadratic Equations <input type="checkbox"/> HW 4A <input type="checkbox"/> 4.2: Factoring Quadratic Equations <input type="checkbox"/> HW 4B	HW 4A HW 4B
Week 8	<input type="checkbox"/> 4.3: Solving Equations with Square Roots <input type="checkbox"/> HW 4C <input type="checkbox"/> 4.4: Complex Numbers <input type="checkbox"/> HW 4D <input type="checkbox"/> 4.5: Completing the Square <input type="checkbox"/> HW 4E	HW 4C HW 4D HW 4E
Week 9	<input type="checkbox"/> 4.6: The Quadratic Formula <input type="checkbox"/> HW 4F <input type="checkbox"/> HW 4G (Honors) <input type="checkbox"/> Chapter 4 Test	HW 4F HW 4G (Honors) Test on Chapter 4
Week 10	<input type="checkbox"/> 5.1: Properties of Exponents <input type="checkbox"/> HW 5A <input type="checkbox"/> 5.2: Polynomial Functions <input type="checkbox"/> HW 5B <input type="checkbox"/> 5.3: Operations on Polynomials <input type="checkbox"/> 5.4: Factoring Polynomials and Solving Equations <input type="checkbox"/> HW 5C	HW 5A HW 5B HW 5C

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Week 11	<ul style="list-style-type: none"><input type="checkbox"/> 5.5: Dividing Polynomials<input type="checkbox"/> HW 5D<input type="checkbox"/> 5.6: Finding Rational Roots<input type="checkbox"/> 5.7: The Fundamental Theorem of Algebra<input type="checkbox"/> HW 5E<input type="checkbox"/> HW 5F (Honors)<input type="checkbox"/> HW 5G (Honors)<input type="checkbox"/> Chapter 5 Test	HW 5D HW 5E HW 5F (Honors) HW 5G (Honors) Test on Chapter 5
Week 12	<ul style="list-style-type: none"><input type="checkbox"/> 6.1: Roots and Exponents<input type="checkbox"/> 6.2: Rational Exponents<input type="checkbox"/> HW 6A<input type="checkbox"/> 6.3: Power Functions, Operations on Functions<input type="checkbox"/> 6.4: Inverse Functions<input type="checkbox"/> HW 6B	HW 6A HW 6B
Week 13	<ul style="list-style-type: none"><input type="checkbox"/> 6.5: Square Root and Cube Root Functions<input type="checkbox"/> 6.6: Solving Radical Equations<input type="checkbox"/> HW 6C<input type="checkbox"/> HW 6D (Honors)<input type="checkbox"/> Chapter 6 Test<input type="checkbox"/> Review for 1st Semester Exam	HW 6C HW 6D (Honors) Test on Chapter 6
Week 14	1 st Semester Exam	

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Week of	What to do this week	Assignments to turn in
Week 15	<input type="checkbox"/> 7.1: Exponential Growth <input type="checkbox"/> HW 7A <input type="checkbox"/> 7.2: Exponential Decay <input type="checkbox"/> HW 7B	HW 7A HW 7B
Week 16	<input type="checkbox"/> 7.3: The Number e <input type="checkbox"/> HW 7C <input type="checkbox"/> 7.4: Logarithmic Functions <input type="checkbox"/> HW 7D	HW 7C HW 7D
Week 17	<input type="checkbox"/> 7.5: Properties of Logarithms <input type="checkbox"/> HW 7E <input type="checkbox"/> 7.6: Solving Logarithmic Equations <input type="checkbox"/> HW 7F <input type="checkbox"/> HW 7G <input type="checkbox"/> HW 7H (Honors) <input type="checkbox"/> Chapter 7 Test	HW 7E HW 7F HW 7G HW 7H (Honors) Test on Chapter 7
Week 18	<input type="checkbox"/> 8.1: Inverse Variation, Joint Variation, Combined Variation <input type="checkbox"/> HW 8A <input type="checkbox"/> HW 8B <input type="checkbox"/> 8.2: Simple Rational Functions	HW 8A HW 8B
Week 19	<input type="checkbox"/> 8.3: Graphing Rational Functions <input type="checkbox"/> HW 8C <input type="checkbox"/> 8.4: Multiplication and Division with Rational Expressions <input type="checkbox"/> HW 8D	HW 8C HW 8D
Week 20	<input type="checkbox"/> 8.5: Addition and Subtraction with Rational Expressions <input type="checkbox"/> HW 8E <input type="checkbox"/> 8.6: Solving Rational Equations <input type="checkbox"/> HW 8F <input type="checkbox"/> HW 8G <input type="checkbox"/> HW 8H (Honors) <input type="checkbox"/> HW 8I (Honors) <input type="checkbox"/> Chapter 8 Test	HW 8E HW 8F HW 8G HW 8H (Honors) HW 8I (Honors) Test on Chapter 8
Week 21	<input type="checkbox"/> 9.1: The Distance and Midpoint Formulas <input type="checkbox"/> HW 9A <input type="checkbox"/> 9.2: Parabolas <input type="checkbox"/> HW 9B	HW 9A HW 9B
Week 22	<input type="checkbox"/> 9.3: Circles <input type="checkbox"/> HW 9C <input type="checkbox"/> 9.4: Ellipses <input type="checkbox"/> HW 9D	HW 9C HW 9D
Week 23	<input type="checkbox"/> 9.5: Hyperbolas <input type="checkbox"/> HW 9E <input type="checkbox"/> 9.6: Conic Sections <input type="checkbox"/> HW 9F (Honors)	HW 9E HW 9F (Honors) Test on Chapter 9
Week 24	<input type="checkbox"/> 10.1: Sequences and Series <input type="checkbox"/> HW 10A <input type="checkbox"/> 10.2: Arithmetic Sequences, Arithmetic Series <input type="checkbox"/> HW 10B <input type="checkbox"/> 10.3: Geometric Sequences, Geometric Series <input type="checkbox"/> HW 10C <input type="checkbox"/> HW 10D (Honors)	HW 10A HW 10B HW 10C HW 10D (Honors)
Week 25	<input type="checkbox"/> 11.1: Introduction to Trigonometry <input type="checkbox"/> 11.2: The Tangent Ratio <input type="checkbox"/> 11.3: Tangent Ratios for Particular Angles <input type="checkbox"/> HW 11A <input type="checkbox"/> 11.4 The Unit Circle and the Tangent Function	HW 11A

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Week 26	<input type="checkbox"/> 11.5 Solving Problems with the Tangent Ratio <input type="checkbox"/> HW 11B <input type="checkbox"/> 11.6: Sine and Cosine <input type="checkbox"/> 11.7 Sine and Cosine for Particular Angles <input type="checkbox"/> 11.8: Sine and Cosine on the Unit Circle	HW 11B
Week 27	<input type="checkbox"/> 11.9 Solving Problems using Sine and Cosine <input type="checkbox"/> HW 11C <input type="checkbox"/> HW 11D <input type="checkbox"/> 11.10 Non-trivial Trigonometry Problems <input type="checkbox"/> HW 11E <input type="checkbox"/> Test 11	HW 11C HW 11D HW 11E Test on Chapter 11
Week 28	<input type="checkbox"/> 12.1: Graphing the Sine and Cosine functions <input type="checkbox"/> 12.2: Sinusoidal Motion and Circular Motion <input type="checkbox"/> HW 12A <input type="checkbox"/> HW 12B	HW 12A HW 12B
Week 29	<input type="checkbox"/> 12.3: Graphing the Tangent Function <input type="checkbox"/> 12.4 Solving Trig Equations <input type="checkbox"/> HW 12C <input type="checkbox"/> HW 12D	HW 12C HW 12D
Week 30	<input type="checkbox"/> 12.5: The Law of Sines and Law of Cosines <input type="checkbox"/> HW 12E <input type="checkbox"/> HW 12F <input type="checkbox"/> HW 12G <input type="checkbox"/> Test 12	HW 12E HW 12F HW 12G Test on Chapter 12
Week 31	<input type="checkbox"/> Review for Exam	
Week 32	<input type="checkbox"/> 2 nd Semester Exam	