

DISTRICT U-46 Pacing Guide for Algebra 3-4 with Support

Quarter 1 First-Degree Equations & Inequalities	Quarter 2 Polynomials & Quadratics	Quarter 3 Conics, Rational Expressions & Polynomials	Quarter 4 Trigonometry, Logarithms, & Probability/Statistics
<u>Ch. 1: Solving Equations & Inequalities</u> <ul style="list-style-type: none"> • 1-1 Expressions and Formulas • 1-2 Properties of Real Numbers • 1-3 Solving Equations • 1-5 Solving Inequalities • 1-4 Solving Absolute Value Equations • 1-6 Solving Compound and Absolute Value Inequalities 	<u>Ch. 5: Polynomials Part #1</u> <ul style="list-style-type: none"> • 5-1 Monomials • 5-2 Polynomials • 5-4 Factoring Polynomials 	<u>Ch. 7: Polynomial Functions</u> <ul style="list-style-type: none"> • 7.1 Polynomial Functions • 7.2 Graphing Polynomial Functions 	<u>Ch. 13: Trigonometric Functions</u> <ul style="list-style-type: none"> • 13-1 Right Triangle Trigonometry • 13-2 Angles and Angle Measure • 13-3 Trigonometric Functions of General Angles <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">(ACT Prep/Review – Packets??)</p>
<u>Ch. 2: Linear Relations and Functions</u> <ul style="list-style-type: none"> • 2-1 Relations and Functions • 2-2 Linear Equations • 2-3 Slope • 2-4 Writing Linear Equations • 2-7 Graphing Inequalities 	<u>Ch. 5: Polynomials Part #2</u> <ul style="list-style-type: none"> • 5-5 Roots of Real Numbers • 5-6 Radical Expressions • 5-7 Rational Exponents • 5-8 Radical Equations & Inequalities • 5-9 Complex Numbers 	<u>Ch. 8: Conic Sections</u> <ul style="list-style-type: none"> • 8-1 Midpoint & Distance Formulas • 8-3 Circles • 8-4 Ellipses • 8-5 Hyperbolas • 8-2 Parabolas • 6-6 Analyzing Graphs of Quadratic Functions • 8-6 Conic Sections <p style="text-align: center;">***All conics in standard form***</p>	<u>Ch. 10: Logarithms</u> <ul style="list-style-type: none"> • 10-1 Exponential Functions • 10-2 Logarithms & Logarithmic Functions • 10-3 Properties of Logarithms • 10-4 Common Logarithms
<u>Ch. 3: Systems of Equations & Inequalities</u> <ul style="list-style-type: none"> • 3-1 Solving Systems of Equations by Graphing • 3-2 Solving Systems of Equations Algebraically • 3-3 Solving Systems of Inequalities by Graphing 	<u>Ch. 6: Quadratic Functions & Inequalities</u> <ul style="list-style-type: none"> • 6-3 Solving Quadratic Equations by Factoring • 6-5 The Quadratic Formula • 6-1 Graphing Quadratic Functions • 6-2 Solving Quadratic Equations by Graphing 	<u>Ch 9: Rational Expressions & Equations</u> <ul style="list-style-type: none"> • 9-1 Multiplying & Dividing Rational Expressions • 9-2 Adding & Subtracting Rational Expressions • 9-6 Solving Rational Equations <hr style="border-top: 1px dashed black;"/> <p style="text-align: center;">Teacher discretion in order of chapters - Possibly do Chapter 8 & 9, then 7</p>	<u>Ch. 12: Probability & Statistics</u> <ul style="list-style-type: none"> • 12-1 The Counting Principle • 12-2 Permutations & Combinations • 12-3 Probability
<u>Optional Sections:</u> <ul style="list-style-type: none"> • 2-5 Using Scatter Plots • 2-6 Special Functions • 3-4 Linear Programming • 3-5 Solving Systems of Equations in Three Variables • <i>Chapter 4: Matrices</i> 	<u>Optional Sections:</u> <ul style="list-style-type: none"> • 5-3 Dividing Polynomials • 6-4 Completing the Square • 6-7 Graphing & Solving Quadratic Inequalities 	<u>Optional Sections:</u> <ul style="list-style-type: none"> • 7.3 – 7-9 Polynomials • 8-7 Solving Quadratic Systems • 9-3 Graphing Rational Functions • 9-4 Direct, Joint, & Inverse Variation • 9-5 Classes of Functions • 9-6 Solving Rational Inequalities 	<u>Optional Sections:</u> <ul style="list-style-type: none"> • <i>Chapter 11: Sequences and Series</i> • 10-5 Base e & Natural Logarithms • 10-6 Exponential Growth & Decay • 12-4 – 12-9 Probability & Statistics • 13-4 Law of Sines • 13-5 Law of Cosines • 13-7 Inverse Trigonometric Functions