**Algebra 2**

##### In this level, your student will confidently explore advanced factoring, conjugate numbers, the binomial theorem, and more to review and expand mastery of topics taught in Algebra 1. Achieve a solid grasp of graphing and solving equations visually and algebraically with Math-U-See Algebra 2.Factoring polynomials, quadratic formula, graphing conic sections and other Algebra 2 topics

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|  **Major Concepts and Skills Include:*** Simplifying multiple-degree rational expressions
* Working with imaginary and complex numbers
* Understanding and applying the binomial theorem
* Solving basic quadratic equations with factoring
* Applying analytic geometry to conic sections
* Solving simultaneous equations (linear and conic) using graphing, substitution, and elimination
 |  **Additional Concepts and Skills:*** Applying basic algebra to problems involving ratios and proportions
* Graphing inequalities
* Using the distance and midpoint formulas
* Solving equations with three variables
* Solving problems involving distance, rate, and time
* Understanding vectors
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