What my child needs to know in High School Math?

ALGEBRA I
• Reason with supporting data and use units to solve problems. • Using appropriate tools in modeling real world situations and applications. • Analyze given information to create algebraic/statistical representations. • Build into solving multi-step problems involving different kinds of algebraic structures

ALGEBRA II
• Compare and analyze functions. Explain solving methods and draw conclusions based on data. • Use a variety of mathematical models including polynomial, exponential, and trigonometric to interpret and solve real world problems and apply to data. • Reason quantitatively and use units to solve problems. • Use function notation in the context of the library of elementary functions. • Solve a range of multi-step problems, making assumptions as necessary, and making productive use of knowledge of functions.

GEOMETRY
• Use knowledge in congruence, similarity, probability, and trigonometry to solve multi-step problems • Prove theorems and apply them in a multitude of problem styles • Use logic and reasoning to make assumptions as needed in order to solve multi-step problems • Analyze given information in diagrams to create algebraic representations • Using appropriate tools in modeling real world situations and applications • Measure and quantify attributes of two and three dimensional objects • Reason quantitatively and use units to solve problems