

Rockwall ISD Pre-Calculus Honors Parent Guide



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Grading Period*	Unit Goals (TEKS)	Pre-Calculus Textbook <u>McGraw Hill</u>
1	<p>Unit 1: Functions Unit Goal: Students will graph and analyze and create families of functions that will be used in Precalculus Student Learning Objectives:</p> <ul style="list-style-type: none"> • I can graph and generate function rules of parent functions. (P.2F, SAT) • I can analyze key attributes of parent functions including linear, quadratic, cubic, exponential, logarithmic, rational, polynomial, power and piecewise defined functions, including step functions. (P.2I, SAT) • I can explore even and odd functions and describe the symmetry of these functions using multiple representations. (P.2D) • I can analyze and describe end behavior of functions in mathematical and real world problems using multiple representations, including infinity notation. (P.2J) • I can determine various types of discontinuities, including jump, infinite and removable discontinuities and explore the limitations of the graphing calculator. (P.2L) • I can describe the left-sided behavior and the right-sided behavior of the graph of a function around discontinuities. (P.2M, SAT) • I can analyze situations modeled by functions to solve real-world problems. (P.2N, SAT) 	Chapter 1

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	<ul style="list-style-type: none">• I can convert between polar and rectangular equations. (P.3E) <p>Unit 8: Sequences and Series Students can create and evaluate arithmetic and geometric sequences and series.</p> <p>Student Learning Objectives:</p> <ul style="list-style-type: none">• I can represent arithmetic and geometric sequences using explicit and recursive formulas. (P.5B)• I can represent arithmetic and geometric series with sigma notation. (P.5D)• I can evaluate finite sums written in sigma notation. (P.5A)• I can calculate the n^{th} term and n^{th} partial sum of an arithmetic sequence in real world problems. (P.5C)• I can calculate the n^{th} term and n^{th} partial sum of a geometric series. (P.5E)• I can find the sum of an infinite geometric series if it exists. (P.5E)• I can apply the Binomial Theorem. (P.5F, SAT)• I can compute and interpret probability in simple contexts. (SAT)• I can understand and use formulas for probability and conditional probability in terms of frequency. (SAT)	<p>Chapter 10</p>
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* Units may cross grading periods. Indicated here is in which grading period the unit generally will begin.