

Texas Tenth Grade Mathematics Guidelines Checklist

Algebra II

(From TEA Chapter 111: Mathematics TEKS – adopted 2012)

Mathematical Process Standards

- ☐ Apply math to everyday experiences.
- ☐ Use problem-solving strategies and tools.
- ☐ Communicate and connect mathematical ideas.

Foundations for Functions

- ☐ Use function notation and interpret functions.
- ☐ Identify domain and range.
- ☐ Represent functions using multiple representations (equation, table, graph).

Linear, Quadratic, and Square Root Functions

- ☐ Solve and graph linear and quadratic equations.
- ☐ Use transformations to analyze functions.
- ☐ Solve problems involving square root functions.
- ☐ Analyze and determine the effect of parameters on graphs.

Cubic, Rational, Polynomial, and Absolute Value Functions

- ☐ Solve and graph higher-order polynomials.
- ☐ Simplify and analyze rational expressions and functions.
- ☐ Solve equations involving absolute value and piecewise functions.

Exponential and Logarithmic Functions

- ☐ Graph and solve exponential and logarithmic equations.
- ☐ Understand properties of logarithms.
- ☐ Apply exponential and logarithmic models to real-world problems.



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Sequences and Series

- ☐ Represent arithmetic and geometric sequences.
- ☐ Use formulas for n th term and sum of series.
- ☐ Apply sequences in problem-solving contexts.

Probability and Statistics

- ☐ Use permutations and combinations.
- ☐ Interpret and construct data displays.
- ☐ Calculate and interpret measures of central tendency and spread.

