Priority Standards

Math Priority Standards – Alg. II

Below is a table of the priority standards.

Priority Standards	Description
N.CN.8	**(11)** Solve quadratic equations with real coefficients that have complex solutions. -*KSDE Flipbooks**
A.APR.2	**(11)** Factor higher degree polynomials; identifying that some polynomials are prime. -*KSDE Flipbooks**
A.REI.3a	Solve equations in one variable and give examples showing how extraneous solutions may arise. • A.REI.3a. **(9/10/11)** Solve rational, absolute value and square root equations. **(9/10)** Limited to simple equations such as, $2\sqrt{x-3}+8=16$, $\frac{x+3}{2x-1}=5, x\neq\frac{1}{2}$. -*KSDE Flipbooks**
A.REI.9	**(9/10/11)** Solve an equation $f(x)=g(x)$ by graphing $y=f(x)$ and $y=g(x)$ and finding the *x*-value of the intersection point. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.★ For **(9/10)** focus on linear, quadratic, and absolute value. -*KSDE Flipbooks**
F.IF.2	**(all)** Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context. -*KSDE Flipbooks**
F.IF.4	**(all)** For a function that models a relationship between two quantities, interpret key features of expressions, graphs and tables in terms of the quantities, and sketch graphs showing key features given a description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity. ★ -*KSDE Flipbooks**
F.IF.7(bce)	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases. ★ • F.IF.7b **(11)** Graph square root, cube root, and exponential functions. ★

Priority Standards	Description
	• F.IF.7c **(11)** Graph logarithmic functions, emphasizing the inverse relationship with exponentials and showing intercepts and end behavior. ★ • F.IF.7e **(11)** Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior. ★ -*KSDE Flipbooks**
F.BF.3	**(9/10/11)** Transform parent functions $\big(f(x)\big)$ by replacing $f(x)$ with $f(x)+k$, $kf(x)$, $f(kx)$, and $f(x+k)$ for specific values of *k* (both positive and negative); find the value of *k* given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. For **(9/10)** focus on linear, quadratic, and absolute value functions. -*KSDE Flipbooks**
F.BF.5	**(11)** Understand the inverse relationship between exponents and logarithms and use this relationship to solve problems involving logarithms and exponents. -*KSDE Flipbooks**

**Kansas Department of Education has created 'Flipbooks' for current standards that detail each standard, including examples and resources to support in understanding the depth of the standard.*