

# WASHINGTON UNIFIED SCHOOL DISTRICT

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## INTEGRATED MATH 3 OVERVIEW

COURSE TITLE:	Integrated Math 3		
DEPARTMENT:	Mathematics		
UNITS:	Two Semesters: 5 Units per Semester		
GRADE LEVEL:	10 <sup>th</sup> , 11 <sup>th</sup> , 12 <sup>th</sup>		
NATURE OF COURSE:	Meets district graduation requirement as one of three courses in mathematics. Meets UC/CSU approval for the a-g requirement in mathematics. Requires a grade of C- or better for placement in Math Analysis or Statistics. Requires a grade of B- or better for placement in Pre-Calculus or AP Statistics.		
PREREQUISITE:	A grade of C- or better in Integrated Math 2		
DESCRIPTION:	The purpose of Mathematics 3 is to formalize and extend the mathematics that students learned in Mathematics 1 and 2. The critical areas deepen and extend understanding of exponential relationships, by contrasting them with inverse functions (logarithms). The geometric relationships of trigonometry are further explored as representing trigonometric functions on a graph. Mathematics 3 uses properties of individual functions to extend to compositions of and transformations of functions, while also formalizing statistical analysis of data. The course reaches its conclusion with multiple part applications and extensions in longer lesson tasks. Classes focus on a student centered approach where students work in partners and groups in order to discover, discuss, and analyze mathematical concepts. There is also a software component to the class, where students work through problems and get help at their own pace.		
COURSE GOALS:	Key skills and concepts, as outlined by the California Common Core Standards, are addressed as students learn to: <ul style="list-style-type: none"><li>• Analyze polynomial and rational functions using different representations</li><li>• Interpret functions that arise in applications in terms of the context</li><li>• Represent and solve inverse, transformed, and composite functions</li><li>• Understand exponential equations as an inverse to logarithms</li><li>• Utilize trigonometric functions to understand periodic phenomena</li><li>• Understand visual displays and summary statistics</li><li>• Collect data and form realistic conclusions</li></ul>		
TEXTBOOK:	<u>Integrated Math 3</u> Carnegie Learning, 2012		
GRADES:	A = 90% - 100%	60% Tests/Quizzes	60% Tests/Quizzes
	B = 80% - 89%	30% Daily Work/Projects	30% Daily Work/Projects
	C = 70% - 79%	<u>10% Semester 1 Final</u>	<u>10% Semester 2 Final</u>
	D = 60% - 69%	100% SEMESTER 1 GRADE	100% SEMESTER 2 GRADE
	F = 0% - 59%		