

Mathematics Classification	High School		
	Competency		Standards
Numbers and Quantities	HS 1.1	Apply and interpret units while modeling problems, formulas, graphs and data to ensure a sensible outcome	NQ.1,2,3
Algebra Concepts	HS 2.1	Write and interpret appropriate equivalent forms of an expression to explain different properties of the quantities represented in real-world context	A.SSE.1,2,3 A.CED.4
	HS 2.2	Model, solve, identify, interpret and apply systems of equations/inequalities to explain authentic or hypothetical situations using math as the authority	A.REI.1,2,3,5,6,8,9,10 A.CED.1,2,3
Functions	HS 3.1	Solve, analyze and apply linear, quadratic, exponential functions using different representations to explain situations using math as the authority	F.IF.1,2,4,5,6,7,8,9 F.BF.1,2 F.LQE.1,2 A.APR.1,2
Geometry Concepts	HS 4.1	Apply geometric shapes, measurements and properties by validating/communicating/proving arguments and modeling to describe objects and then apply to solve and design problems	G.CO.1,2,3,4,7,8,9,10 G.MG.1,2,3 G.GMD.1,2
	HS 4.2	Use algebraic concepts by explaining arguments and creating proofs to validate geometric concepts and apply a real-world context.	G.GPE.1,6,7,8
	HS 4.3	Demonstrate understanding of similarity and trigonometric ratios by constructing and explaining to validate geometric concepts and apply in a real-world context.	G.SRT.1,2,3,4,5,6,7,8,9 G.C.1
Probability and Statistics	HS 5.1	Summarize, model, interpret and predict data using different representations to make informed justifiable decisions.	S.ID.1,2,4,6
MATHEMATICAL PRACTICES Problem Solving, Modeling and Communicating Reasoning	<p>Demonstrate the ability to use the eight mathematical practices fluidly across skills and concepts.</p> <ol style="list-style-type: none"> 1) Make sense of problems and persevere in solving them. 2) Reason abstractly and quantitatively. 3) Construct viable arguments and critique the reasoning of others. 4) Model with Mathematics. 5) Use appropriate tools strategically 6) Attend to precision 7) Look for and make use of structure 8) Look for and express regularity in repeated reasoning. 		