



GUARANTEED VIABLE CURRICULUM

Secondary Math 3

Big Rocks	Standard(s) Covered	Resources Used
1. Interpret the structure of expressions.	<u>Standard A.SSE.1</u> Interpret complicated expressions by viewing one or more of their parts as a single entity. <u>Standard A.SSE.2</u> Use the structure on an expression to identify ways to rewrite it.	<i>Big Ideas Math</i> —text and online resources ALEKS . .
2. Understand solving equations as a process of reasoning and explain the reasoning.	<u>Standard A.REI.2</u> Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	Desmos Classroom Activities
3. Analyze functions using different representations.	<u>Standard F.IF.7</u> Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior	Desmos apps TI-84 plus ce
4. Apply trigonometry to general triangles	<u>Standard G.SRT.10</u> Prove the Laws of Sines and Cosines and use them to solve problems <u>Standard G.SRT.11</u> Understand and apply the Law of Sines and the Law of Cosines.	
5. Build a function that models a relationship between two quantities	<u>Standard F.BF.1</u> Combine standard function types using arithmetic operations.	



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6. Construct and compare linear, quadratic, and exponential models and solve problems	<u>Standard F.LE.4</u> For exponential models, express as a logarithm solution (base is 2, 10, or e)	
7. Apply geometric concepts in modeling situations	<u>Standard GMG.1</u> Use geometric shapes, their measures, and their properties to describe objects. Apply geometric methods to solve design problems.	
8. Summarize, represent, and interpret data on a single count or measurement variable.	<u>Standard S.ID.4</u> Use the mean and standard deviation of a data set to fit it to a normal distribution and estimate population percentages.	Calculator apps Spreadsheets Simulations
9. Understand and evaluate random processes underlying statistical experiments	<u>Standard S.IC.1</u> Understand that statistics allows inferences to be made about population parameters based on a random sample from that population. <u>Standard S.IC.2</u> Decide if a specified model is consistent with results from a given data-generating process.	