




## 2018 - 2019 Pacing Guide for Accelerated 8<sup>th</sup> Math

### First Semester

GMAS%	#Days	Dates	Topics	Standards
28% Calculator OK	17	Aug 9 - 31	Unit 1 : <b>"Transformations, Congruence, &amp; Similarity"</b> Describe, using coordinates, locations resulting from transformations. Describe the effect of dilations, translations, rotations and reflections on two-dimensional figures using coordinates. Describe a sequence of transformations to prove similarity. Explore angle relations created with parallel lines cut by transversal.	CC8.G.1, CC8.G.2, CC8.G.3, CC8.G.4, CC8.G.5
20% Some Calculator use ok	14	Sept 4 - Sep 21	Unit 2 : <b>"Exponents"</b> Evaluate squares of small perfect squares and cube roots of small perfect cubes. Know $\sqrt{2}$ irrational . Use scientific notation to write very large or very small numbers, perform operations with scientific notation. Solve multi-step linear equations in 1 variable with no solutions, 1 solution, or many solutions. Recognize rational vs irrational numbers. Approximate values of irrational numbers & locate approximate location on number line. <b>Convert repeating decimals to fractions</b>	CC8.EE.1, CC8.EE.2 CC8.EE.3, CC8.EE.4 CC8.EE.7a,b, CC8.NS.1, CC.NS.2
28% Calculator OK	21	Sep 24 - Oct 24	Unit 3 : <b>"Geometric Applications of Exponents"</b> Explain & use Pythagorean Theorem to find lengths of missing sides and the distance between 2 points on the coordinate plane. Know & use formulas for volume of cones, cylinders, spheres to solve real world problems	CC8.G.6, CC8.G.7, CC8.G.8, CC8.G.9,
40% Calculator OK	7	Oct 25 - Nov 2	Unit 4 : <b>"Functions"</b> function rule, exactly 1 output for each input, graph functions, compare 2 functions represented in different ways (algebraically, graphically, numerically in tables, or by verbal descriptions).	CC8.F.1 CC8.F.2
40% Calculator OK	20-21 bc 4-5 for GA studies*	Nov 5 - Dec 14	Unit 5/6 : <b>"Linear Functions and Linear Models &amp; Tables"</b> graph linear functions, rate of change, initial value, compare different representations, $y=mx+b$ , non-linear examples, interpreting meaning of rate of change & slope	CC8.EE.5, CC8.EE.6 CC8.F.4
		Dec 17-21	<b>Catch Up Days!</b>	
			 <b>Christmas Break</b> 	

\*GA Studies dates are usually in November, but vary from campus to campus.

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<b>Second Semester</b>				
<b>GMAS%</b>	<b>#Days</b>	<b>Dates</b>	<b>Topics</b>	<b>Standards</b>
<b>40%</b>	10	Jan 7 - 18	Unit 5/6 : <b>"Linear Functions and Linear Models &amp; Tables"</b> Linear vs Non-Linear and Qualitative Graphs (Concepts 3 & 4)	<b>CC8.F.3, CC8.F.5</b>
<b>40%</b> Calculator OK	19	Jan 22 - Feb 15	Unit 7 : <b>"Solving Systems of Equations"</b> Solve systems of equations graphically & algebraically. Use systems to solve real world problems. <b>ADD SYSTEMS OF INEQUALITIES.</b>	<b>CC8.EE.8a, b, c</b> <b>CC8.EE.8b</b> <b>CC8.EE.8c</b>
<b>12%</b> Calculator OK	9	Feb 19 - March 1	<b>Mini Unit 6 : Statistics</b>	<b>CC8.SP.1, CC8.SP.2,</b> <b>CC8.SP.3, CC8.SP.4,</b>
	19	March 4 - 29	<b>ACC Algebra Unit 1: Relationships Between Quantities &amp; Expressions</b> interpret the structure of expressions; solve problems related to unit analysis; properties of rational and irrational numbers; operations with polynomials	
		April 8 - May 15	<b>GMAS Review &amp;</b> <b>ACC Algebra Unit 2 : Reasoning with Linear Equations and Inequalities</b> create, solve, and model graphically systems of linear equations and inequalities; rearrange formulas to highlight a quantity of interest; recognize arithmetic sequences as linear functions.	ALL 8 <sup>th</sup> Grade Standards
		May 17-21	Review & Finals	