## 8<sup>th</sup> Grade Honors & Advanced Math Syllabus May 23, 2016- Revised

1 <sup>st</sup> Benchmark	2 <sup>nd</sup> Benchmark	3 <sup>rd</sup> Benchmark	4 <sup>th</sup> Benchmark	Math Lab
Ch. 1- Foundations	<u>Ch. 5 Linear Functions:</u>	<u>Ch. 8 Polynomials and</u> Factoring:	<u>Ch. 11 Rational Expressions</u> and Functions:	1 <sup>st</sup> Rotation:
Number Systems	Table of Values	- wordstrange		Exponent Rules
	Slope ~ Y-Intercept Quick Graphs Using Slope-	Adding/Subtracting Polynomials Multiplying Polynomials	Simplifying Rational Expressions Multiplying and Dividing	2 <sup>nd</sup> Rotation:
Ch. 2- Solving Equations:	Intercept Form Linear Equations in Slope- Intercept Form	Special Products of Polynomials	Rational Expressions Dividing Polynomials Adding and Subtracting Rational	Linear and Quadratic Functions
(Distributive and Combining	Generating Parallel and	Factoring Special Products	Expressions	3 <sup>rd</sup> Rotation:
Like Terms)	Perpendicular Lines	Factoring Using the Distributive	Zipressions	
Variables on both sides	Linear Equations in General-	Property		Exponential Functions-
	Linear Form	Polynomial Division		Compound Interest, Growth/
Special Equations:	Point-Slope Form of a Linear			Decay
	Equation	Ch. 9 Quadratic Functions and		
Solving Decimal/Fractional		Equations:	Advanced Word Problems	Inequalities-
Equations	Scatter Plots/Line of Best Fit		(Motion, Mixture, Coin,	Linear, Compound, Absolute
Solving Literal Equations	Predicting with Linear Models	Introduction to Graphing Non-	Consecutive Int, Work)	Value
Solving Zero Product Equations		Linear Equations		th D ( )
Solving Absolute Value	Graphing Linear Inequalities in	Graphing Quadratic and Absolute	Matrices (Add, Subtract, Scalar	4 <sup>th</sup> Rotation:
Equations	I wo Variables	Value Equations in Vertex Form	and Multi-Dimesional	Duthe series Theorem
Dadicals	Ch 6 Systems of Equations and	Graphing Non-Linear	Multiplication)	Special Right Triangles
(Simplifying/Adding/Subtracting/	<u>Unacualities:</u>	Graphing Quadratic Equations in	Matrix Equations	Triangle Trig Ratios
Multiplying/Rationalizing)	<u>inequanties.</u>	Standard Form		Thangle Thg Ratios
which prying/Katonanzing)	Solving Linear Systems by	Standard Form		
Solving Squared Quantity	Graphing	Solving Quadratic Equations with		
Equation	Solving Linear Systems by	Ouadratic Formula		
1	Substitution			
	Solving Linear Systems by			
	Elimination			
	Applications of Linear Systems			
	Solving Systems of Linear			
	Inequalities			