

## Secondary I/II Honors Advanced Year at a Glance 2016 – 2017

**It is expected that the honors advanced teacher will collaborate with the other honors advanced teachers to determine the order and pacing of the standards/topics within each quarter**

Flexible Pacing	Standards (in any order)	Topics Related to Standards	Walch Alignment	Assessment Window
<b>All year</b>				
	N.Q.1	Reason quantitatively		
	N.Q.3	Use units to solve problems		
<b>SECONDARY I HONORS</b>				
<b>1<sup>st</sup> Semester</b>				
<b>August 24 – January 18th</b>	A.CED.1	Create linear and exponential equations and inequalities in one variable	1.2.1 1.2.2 1.2.3	<b>Secondary I Pre-Assessment (Required): Aug 24<sup>th</sup> – Sept 2<sup>nd</sup></b>
	A.CED.2	Create equation in two or more variables	1.3.1 1.3.2	
	A.CED.3	Represent constraints and interpret solutions	1.4.1	
	A.CED.4	Rearrange formulas	1.5.1	
	A.SSE.1	Interpret linear and exponential expressions	1.1.1 1.1.2	
	A.REI.3**	Solve equations and inequalities in one variable including: compound inequalities, absolute value inequalities, and simple exponential equations (those that can be solved without logarithms)	3.1.2 3.1.3 3.1.4 compound and absolute value inequalities not covered in Walch	
A.REI.10	Understanding that a graph of an equation is all the solutions	2.1.1		

A.REI.11	Explain the meaning of the intersection of two graphs	2.1.2
F.BF.1	Write a function that describes a relationship between two quantities	2.5.1 2.6.1
F.IF.1	Understand the concept of a linear or exponential function	2.1.3
F.IF.2	Use and understand function notation	2.1.4
N.Q.2	Define appropriate quantities for the purpose of descriptive modeling	1.2.1
F.BF.2	Arithmetic and geometric sequences	2.7.2
F.IF.3	Recognize that sequences are functions	2.7.1
F.BF.3**	Graphical transformations on linear and exponential functions	2.6.2
F.IF.4**	Interpret key features of a graph	2.2.1
F.IF.5	Relate the domain of a function to its graph	2.2.2
F.IF.6	Calculate and interpret average rate of change	2.2.2 2.2.3
F.IF.7	Graph functions and show key features	2.3.1 2.3.2
F.IF.9	Compare functions in different forms	2.4.1 2.4.2
A.REI.1	Reason with linear equations	3.1.1
A.REI.5	Reason with systems of linear equations	3.2.1
A.REI.6**	Solve systems of linear equations	3.2.2
A.REI.12	Graph linear inequalities and systems of linear inequalities	2.3.3 3.2.3
F.LE.1	Determine when to use a linear or exponential function	2.2.2 2.2.3
F.LE.2	Construct linear and exponential functions	2.5.2
F.LE.3	Understand that increasing exponential graphs and tables eventually exceed increasing linear graphs and tables	2.4.3
F.LE.5	Interpret parameters	2.8.1
G.GPE.5	Parallel and perpendicular lines	6.1.2
G.GPE.7	Use coordinates to find perimeter and area of polygons	6.1.1 6.2.1
HONORS: N.VM.6	Use matrices to represent and manipulate data	3.3.2

HONORS: N.VM.7	Multiply matrices by a scalar to produce new matrices	3.3.1
HONORS: N.VM.8	Operations on matrices	3.3.1
HONORS: N.VM.9	Understand matrix multiplication	3.3.1
HONORS: N.VM.12	Work with 2 x 2 matrices	3.3.2
HONORS: N.VM.13	Solve systems of linear equations using matrices	3.3.2
S.ID.1	Dot plots, histograms, box plots	4.1.1
S.ID.2	Compare two data sets using shape, center, and spread	4.1.2
S.ID.3**	Interpret differences in shapes, center, & spread, weighted average of a distribution	4.1.3 Weighted average not covered in Walch
S.ID.6	Scatter plots, including linear and exponential models	4.2.2 4.2.3 4.2.4
S.ID.7	Slope and intercept of linear models of data	4.3.1
S.ID.8	Correlation coefficient	4.3.2
S.ID.9	Distinguish between correlation and causation	4.3.3
G.CO.1	Geometry definitions	5.1.1
G.CO.2	Transformations as functions	5.1.2
G.CO.3	Rotations and reflections	5.1.3
G.CO.4	Develop definitions of rotations, reflections, and translations	5.2.1
G.CO.5	Draw and define sequences of transformations	5.2.2

\*\* Standard modified, see standards for changes

2 <sup>nd</sup> Semester				
January 19 <sup>th</sup> – March 1 <sup>st</sup>	G.CO.6	Understand congruence in terms of rigid motions	5.5.1 5.5.2	Secondary I District FINAL: Feb 20 <sup>th</sup> – Mar 1 <sup>st</sup>
	G.CO.7	Congruent triangles	5.6.1	
	G.CO.8	ASA, SAS, SSS	5.6.2	
	G.CO.12	Constructions	5.3.1 5.3.2 5.3.3	
	G.CO.13	Construct polygons in a circle	5.4.1 5.4.2 5.4.3	
	G.GPE.4	Use coordinates to prove simple geometric theorems algebraically	6.1.1	
	HONORS: N.VM.1	Represent vector quantities	6.3.1	
	HONORS: N.VM.2	Find the components of a vector	6.3.1	
	HONORS: N.VM.3	Model with vectors	6.3.1	
	HONORS: N.VM.4	Add and subtract vectors	6.3.2	
	HONORS: N.VM.5	Multiply vectors by a scalar	6.3.2	
	HONORS: N.VM.10	Determinants	6.3.3	
	HONORS: N.VM.11	Multiply a vector by a matrix	6.3.3	
	<b>SECONDARY II HONORS</b>			
	A.APR.1	Operations with polynomials	1.1.1 1.1.2	
	A.SSE.1**	Interpret quadratic and exponential expressions	3A.1.1 3A.1.2	

<b>March 2<sup>nd</sup> – June 7<sup>th</sup></b>	A.SSE.2	Use the structure of an expression to rewrite it	3A.2.2 3A.2.3 3A.2.4 3A.2.5 3A.2.6	<b>Secondary II Honors District Semester Assessment May 22<sup>nd</sup> – June 2<sup>nd</sup></b>
	F.BF.3	Transformations on graphs	2.5.1 2.5.2	
	F.IF.6	Calculate and interpret average rate of change	2.2.3	
	N.RN.1	Extend the properties of exponents to rational exponents	1.2.1	
	N.RN.2	Rewrite expressions using the properties of exponents	1.2.1 1.2.2	
	N.RN.3	Use the properties of rational and irrational numbers	1.2.2	
	N.CN.1	Know there is a complex number $i$	1.3.1	
	N.CN.2	Arithmetic operations with complex numbers	1.3.2 1.3.3	
	N.CN.7	Solve quadratic equations that have complex solutions	3B.2.2 3B.2.3	
	N.CN.8	Extend polynomial identities to the complex numbers	3B.2.1	
	N.CN.9	Fundamental Theorem of Algebra	3B.2.3	
	HONORS: N.CN.3	Find the conjugate, moduli, and quotients of complex numbers	1.3.4	
	HONORS: N.CN.4	Represent complex numbers on the complex plane	1.3.5	
	HONORS: N.CN.5	Represent operations on the complex plane	1.3.5	
	F.IF.4	Interpret key features of graphs and tables	2.2.1	
	F.IF.5	Relate the domain of a function to its graph	2.2.2	
	F.IF.7**	Graph functions and show key features – focus on piecewise and absolute value functions	2.1.1 2.1.2 2.7.1 2.7.2	

F.IF.8	Write a function in different but equivalent forms	2.4.1 3A.2.6 3A.2.7 3A.2.8
F.IF.9	Compare properties of two functions in different forms	2.4.2
F.LE.3	Compare linear and exponential growth to quadratic growth	2.4.2
A.REI.4	Solve quadratic equations (by inspection, taking square roots, completing the square, quadratic formula, factoring)	3A.2.1 3A.2.5 3A.2.6 3A.2.7 3A.2.8
A.REI.7	Solve a simple system consisting of a linear and a quadratic equation (algebraically and graphically)	3B.4.1 3B.4.2
A.SSE.2	Use the structure of an expression to rewrite it	3A.2.8
A.SSE.3	Produce an equivalent form of an expression to reveal and explain properties	3B.1.1 3B.1.2 3B.1.3 3B.3.1
A.CED.1	Create equations and inequalities in two or more variables and use them to solve problems, include linear, quadratic, simple rational and exponential functions,	3A.2.1 3A.2.5 3A.2.6 3A.2.7 3A.2.8
A.CED.2	Create equations in two or more variables to represent relationships	3B.1.1 3B.1.2 3B.1.3
A.CED.4**	Rearrange formulas to highlight a quantity of interest	3B.1.4
F.BF.1	Write a quadratic or exponential function that describes a relationships between two quantities	2.3.1 23.32

	HONORS: A.REI.8	Represent a system of linear equations as a single-matrix equation	3B.5.1	
	HONORS: A.REI.9	Find the inverse matrix	3B.5.2	
	HONORS: F.IF.10	Use sigma notation to represent the sum of a finite series	Not covered in Walch	
	HONORS: F.IF.11	Represent series algebraically, graphically, and numerically	Not covered in Walch	

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