Secondary II Honors
Year at a Glance 2016 – 2017

It is expected that teachers will collaborate with their grade level IPLCs 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
Quarter 1				
August 24 – October 31st	A.APR.1	Operations with polynomials	1.1.1 1.1.2	**Pre-Assessment (Optional): Aug 24th – Sept 2nd** **Grade Level Assessment: Oct 17th – Oct 28th**
	A.SSE.1**	Interpret quadratic and exponential expressions	3A.1.1 3A.1.2	
	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	
	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 place	1.3.5	
	HONORS: N.CN.5	Represent operations on the complex plane	1.3.5	

** Standard modified, see standards for changes

Quarter 2				
November 1st – January 18th	F.IF.4	Interpret key features of graphs and tables	2.2.1	**District Semester Assessment: Jan 4th – Jan 16th**
	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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Quarter 3				
January 19th – March 27th	G.CO.9	Prove theorems about lines and angles	5.5.1 5.5.2	**Grade Level Assessment: Mar 13th – Mar 24th**
	G.CO.10	Prove theorems about triangles	5.6.1 5.6.2 5.6.3 5.6.4	
	G.CO.11	Prove theorems about parallelograms	5.7.1 5.7.2	
	G.SRT.1	Verify properties of dilations	5.2.1 5.2.2	
	G.SRT.2	Use similarity transformations to prove similarity	5.3.1	
	G.SRT.3	Use similarity transformations to establish AA	5.3.2	
	G.SRT.4	Prove theorems about triangles	5.4.1 5.4.2 5.4.3	
	G.SRT.5	Use triangle congruence and similarity to solve problems	5.4.4	
	G.SRT.6	Derive trigonometric ratios for acute angles using side ratios in right triangles	5.8.1	
	G.SRT.7	Relationships between sine and cosine of complementary angles	5.8.3	
	G.SRT.8	Use trig ratios and Pythagorean Theorem to solve right triangles	5.9.1 5.9.2 5.9.3	
	F.TF.8	Prove the Pythagorean identity	5.9.4 5.9.5	

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Quarter 4				
March 28th – June 7th	G.GMD.1	Give informal arguments for area and volume formulas	6.5.1 6.5.2	**District FINAL: May 22nd – June 2nd**
	G.GMD.3	Use volume formulas to solve problems	6.5.2	
	G.C.1	Prove all circles are similar	6.1.1	
	G.C.2	Relationships among angles, radii, and chords	6.1.1 6.1.2 6.1.3	
	G.C.3	Constructions of inscribed and circumscribed circles of triangles and squares	6.2.1 6.2.2 6.2.3	
	G.C.4	Construct a tangent line to a circle	6.3.1	
	G.C.5	Length of an arc and area of a sector	6.4.1 6.4.2	
	G.GPE.1	Derive the equation of a circle	6.6.1	
	G.GPE.4	Use coordinates to prove simple geometric theorems algebraically	6.7.1	
	G.GPE.6	Find a point on a line that divides the segment into a given ratio	5.1.1	
	S.ID.5**	Summarize data in a two-way frequency tables	Secondary I 4.2.1	
	S.CP.1	Describe events as subsets of a sample space using characteristics of the outcome	4.1.1	
	S.CP.4	Construct and interpret two-way frequency tables	4.2.2	
	S.CP.5	Understand and explain conditional probability (no calculations)	Not covered in Walch	
	S.CP.6	Find conditional probability	Not covered in Walch	
	HONORS: G.GPE.2	Derive the equation of parabola	6.6.2	
	HONORS: G.GPE.3	Derive the equations of ellipses and hyperbolas	Not covered in Walch	

	HONORS: S.CP.2	Determine if two events are independent	4.1.3	
	HONORS: S.CP.3	Understand and interpret conditional probability	4.2.1 4.2.2	
	HONORS: S.CP.7	Apply the addition rule	4.1.2	
	HONORS: S.CP.8	Apply the multiplication rule	4.2.3	

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Standards Removed			
	F.BF.4a	Find inverse functions	Moved to Secondary III
	G.GPE.2	Equation of a parabola	Moved to Secondary II Honors
	S.CP.2	Use probability to determine if two events are independent	Moved to Secondary II Honors
	S.CP.3	Understand conditional probability as *P(A and B)/P(B)*	Moved to Secondary II Honors
	S.CP.7	Addition Rule	Moved to Secondary II Honors
	S.CP.8	Multiplication Rule	Moved to Secondary II Honors
	S.CP.9	Use permutations and combinations	Moved to Secondary III Honors