Subject	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Literature: Rhetoric & 20 <sup>th</sup> Century Literature	Research & citation review Diction, clarity, and cohesion in • expository writing and speaking • persuasive writing and speaking Review of literary terms and Socratic dialogue skills Novel: Out of the Silen Planet C.S. Lewis	Review of Literary Romanticism, Realism, Naturalism, and short story examples of the same. Literary modernism Novel: <i>Heart of</i> <i>Darkness</i> , by Joseph Conrad	Poets Militant Early modernist poets and writers, including Eliot and Frost Novel: Begin <i>1984</i> , by George Orwell	Novel: <i>1984</i> by George Orwell Essays: G.K. Chesterton and C.S. Lewis

## SCCS CURRICULUM MAP: TWELFTH GRADE

	N/A	N/A	U.S. government concepts:	Final research, writing, and presentation
			• structure and content of U.S. Constitution	of senior thesis
			• separation of powers	
Senior			electoral process	
Civics and			• legislative process	
Thesis			• judicial review concepts and history	
(second			Comparison/contrast of state and federal	
semester			government & law	
only)				
() (in y)			Analysis of underlying worldview concepts:	
			• rule of law	
			limits of law and government in fallen world	
			<ul> <li>natural law and rights</li> </ul>	
			<ul> <li>positive vs. negative rights</li> </ul>	
			<ul> <li>rights vs. responsibility</li> </ul>	
			• nature and parameters of citizenship	
			• liberalism	
			• benefits vs. limits of democracy	
			Major court decisions of 19 <sup>th</sup> , 20 <sup>th</sup> , 21 <sup>st</sup> century	
			Thesis background reading and research	
			IF TIME, just war and total war concepts: U.S.	
			international relations and worldwiew principles	
			International relations and wondview principles	

Apologetics	Introduction to apologetics Biblical examples and model of apologetics Apologetic Method The Anatomy of unbelief	Classic arguments for existence of God Historical & Moral Reliability of Scripture	Problem of Pain, suffering, and evil	-Christianity among world religions
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Math:	Preparing for Pre-Calculus;	Chapter 4: Trig. Functions;	Chapter 7: Conic Sections and	Chapter 10: Sequences and Series;
PreCalculus	Chapter 1: Functions from	Chapter 5: Trig. Identities	Parametric Equations; Chapter 8:	Chapter 11: Inferential Statistics;
Dre Calculus	a Calculus perspective;	and Equations; Chapter 6:	Vectors; Chapter 9: Polar	Chapter 12: Limits and Derivatives
(Clanco)	Chapter 2: Polynomial and	Systems of Equations and	Coordinates and Complex	
(Gielico)	Rational Functions;	Matrices	Numbers	
0	Chapter 3: Exponential and			
Or	Logarithmic Functions			
	Graphs and models, linear	Extrema of an interval,	Slope and Euler's method,	Sequences, series and convergence,
Math:	models and rate of change,	Rolle's Theory and the	differential equations: growth	<i>n</i> th-term test for divergence, integral
Calculus	functions and their graphs,	Mean Value Theorem,	and decay, separation of	test and the <i>p</i> -series, comparison of
Calculus of a	fitting models to data	increasing and decreasing	variables and the logistic	series (direct ad limit comparison
Single	(linear, quadratic, and	functions and the first	equation, first linear differential	tests), alternating series, ratio and
Variable	trigonometric models),	derivative test, concavity	equations, area of a region	root tests, Taylor polynomials and
(9 <sup>th</sup> Edition)	finding limits graphically	and the second derivative	between two curves, volume: the	approximations, power series,
() Lution)	and numerically,	test, limits at infinity, curve	Disk and Shell Methods, arc	Taylor and Maclaurin series, plane
	evaluating limit	sketching, optimization	length and the surfaces of	curves and parametric equations,
	analytically, continuity and	problems, Newton's	revolution, work by a constant	polar coordinates and polar graphs,
	one-sided limits, infinite	methods, differentials,	and a variable force, mass ad	conics and Kepler's Laws, plane
	limits, derivative and	antiderivatives and indefinite	centroids, Theorem of Pappus,	curves and parametric equations
	tangent line problems,	integration, area, Riemann	fluid pressure and fluid force,	
	basic differentiation rules	sums and definite integrals,	basic integration rules,	
	and rate of change, sine	Fundamental Theorem of	trigonometric integrals,	
	and cosine, product	Calculus, integration by	trigonometric substitution, partial	
	quotient rules and higher	substitution (Trapezoidal	fractions, L'Hopital's Rule and	
	order derivatives, chain	Rule), numerical integration	improper integrals	
	rule	(Simpson's Rule), definition		

of <i>e</i> , natural logarithmic function: Differential and Function integration, inverse functions, exponential functions, bases other than <i>e</i> , inverse trigonometric functions byperbolic	
functions, hyperbolic	
functions	

	Review of Western thought	Nineteenth Century	Progressivism	Post Modernism
History:		philosophies	Eugenics	Critical Theory
Great Ideas II:		Causes and outcomes of WWI	Fuhrer principle	Biblical response to Modernism and Post Modernism
The 20 <sup>th</sup> Century			Totalitarianism	
			Communism	

Physics Conceptual Physics (Prentice Hall) P.E.	Lab Safety, Scientific Method Review, -Mechanical Equilibrium: Force & Vectors -Newton's 1 <sup>st</sup> Law of Motion – Inertia -Linear Motion: Speed, Velocity & Acceleration – Projectile Motion: Velocity Vectors, Projectiles -Newton's 2 <sup>nd</sup> Law of Motion – Force & Acceleration -Newton's 3 <sup>rd</sup> Law of Motion – Action & Reaction	-Momentum - Energy: Mechanical, Potential, & Kinetic, Work Energy Theorem - Circular Motion: Rotational Speed, Centripetal Force -Rotational Equilibrium: Torque, Center of Mass & Gravity - Rotational Motion: Rotational Inertia & Angular Momentum -Universal Gravitation: Falling Apple, Moon & Earth; Gravitational Fields -Satellite Motion: Earth Satellites, Orbits Fitness Program	-Special Relativity- Space & Time -Relativity-Momentum, Mass, Energy, & Gravity -The Atomic Nature of Matter: Atoms, Molecules, Compounds -Solids: Density, Elasticity -Liquids: Buoyancy, Flotation -Gases: Atmosphere, Boyle's Law, Bernoulli's Principle - Temperature, Heat, & Expansion: Specific Heat Capacity - Heat Transfer: Conduction, Convection, Radiation, Newton's Law of Cooling - Change of Phase: Evaporation, Condensation, Boiling, Freezing -Thermodynamics: 1 <sup>st</sup> - 3 <sup>rd</sup> Law of Thermodynamics Newton's laws), surface gravity, escape velocity Cotillion	Some or all of the following units: -Vibrations & Waves: waves & Doppler effect -Sound: origin & speed - Light: Concepts, speed, polarization -Color: Spectrum, Reflection, Atomic Color Code -Reflection & refraction: Laws of Reflection & relationships with sound, light -Lenses: converging & diverging; the eye Diffraction & Interference: Huygens' Principle; Young's Interference Experiment -Electrostatics: Coulomb's Law; Induction; Polarization -Electric Fields & Potential - Electric Current: Voltage, Ohm's Law, -Electric Circuits -Magnetism: Poles & Fields & Forces -Electromagnetic Induction: Faraday's Law, Transformers; -The Atom & the Quantum -The Atomic Nucleus & Radioactivity -Nuclear Fission & Fusion Einstein's Theory of Relativity, Twin Paradox, Telescopes, Cosmology, Looking back toward the beginning of the Universe Fitness Program

<b>Music</b> Classical & Folk Guitar	Training Your Ears & Playing Basics	More Majors & More minors	Pentatonic Scales	Keep On Keeping On
Art History Cycle 1— one year	The Pre-classical World The Classical World	The Christian World The Proto-Renaissance World		
Cycle 2— alternate year	The Renaissance to Baroque Neoclassical to Early Photography	Impressionism to Expressionism Cubism to Contemporary Art		