**Frederick County High Schools Curriculum Chart**

**Spring 2009**

**Created by Kate Walters, Governor Thomas Johnson High School**

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| **English** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| English 9 | | English 10 | | | | | | | | | | | English 11 | | | | | | | | | English 12 | | | | | | | AP Language | | | | | | | | AP Literature | | | | | | | Journalism | | |
| plot elements persuasive & narrative writing; poetic devices & forms | | American poetry, drama, short stories, novels, and nonfiction; rhetorical devices; research methods; literary criticisms | | | | | | | | | | | World poetry, drama, short stories, novels, and nonfiction; revolutionary writing; resume & cover letter writing | | | | | | | | | composition variety including compare & contrast, narrative, cause & effect, & persuasive; revision techniques | | | | | | | essay structure; argumentation essays; syntax; world literature; narrative and descriptive essays; college essays | | | | | | | | literary works from diverse cultures; motifs in literature; philosophical, political, & social influences on world literature; essay structure | | | | | | | news, opinions, & features, sports writing; history of journalism; journalists in the field; Associated Press style; advertisements | | |
| **Mathematics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Algebra I | | | Algebra II | | | | | | | | | Advanced Algebra | | | | | | Geometry | | | | | | | | Pre-Calculus | | | | | | | | AP Calculus | | | | | Statistics | | | | | | Contemporary | |
| single variable inequalities; linear functions & systems; data analysis | | | quadratic equations; polynomials; exponential, rational, & logarithmic functions | | | | | | | | | polynomials; exponential, rational, logarithmic, & trigonometric functions | | | | | | points, lines, & planes; polygons; trigonometry; mathematical proofs | | | | | | | | polynomials; limits; exponential, rational, logarithmic, & trigonometric functions | | | | | | | | derivatives; integrals; differential equations; infinite series; limits | | | | | data analysis; sampling; probability; distributions; hypothesis testing; | | | | | | personal finance; common & abnormal investments; banking; budgeting | |
| **Science** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Biology | | | | | | | Introduction to Chemistry and Physics | | | | | | | | | | | | | | Chemistry | | | | | | | | | Algebra-Based Physics | | | | | | | | | | | Environmental Science | | | | | |
| carbohydrates, lipids, & proteins; organic molecules; anatomy of a cell; fertilization; genetics & DNA; structure & function of body systems | | | | | | | three phases of matter (solid, liquid, & gas); subatomic particles; kinetic & potential energy; chemical reactions; ionic & covalent bonding; Law of Conservation of Mass and Energy | | | | | | | | | | | | | | Hess’s Law; Atomic Theory; Lewis electron dot diagrams; Periodic Table; hybridization; bonding in single, double, and triple bonds; solutions; metals | | | | | | | | | laws of mechanics; friction; gravity; Newton’s Laws; momentum; waves & optics; electromagnetism; thermodynamics; fission & fusion; Doppler Effect; Ohm’s Laws & electricity; | | | | | | | | | | | biogeochemical cycles; ecosystems & habitats; natural selection; water treatment; soil conservation; air pollutants; greenhouse effect; Chesapeake Bay | | | | | |
| **Social Studies** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Government | Modern World | | | | | | | AP World & European | | | | | American Studies II | | | AP US History | | | | Civil War | | | | | | World War II | | | | | | Ancient & Medieval | | | | | | Sociology | | | | Psychology | | | | Economics |
| US Constitution; Bill of Rights; Supreme Court Cases; Archived documents; branches of the Government | Renaissance; Reformation; Age of Exploration; Scientific Revolution; Enlightenment; Napoleonic Era; Industrial Revolution; Nationalism; Imperialism; Revolution; World Wars I & II; Cold War | | | | | | | | | | | | Reconstruction; Industrialization; reform; Imperialism; World War I; the 1920s; economic crisis & the New Deal; World War II; the Cold War | | | | | | | Sectionalism; slavery; secession; Lincoln, Grant, & Lee; war in 1862, 1864, &1865; Reconstruction | | | | | | Fascism; Japan’s involvement; American involvement; Holocaust; Axis’ Defeat; Mussolini & Hitler | | | | | | Prehistoric Humans; River Valley; Ancient Greeks & Romans; early, middle, and late Medieval | | | | | | aging; social stratification; ethnic relations; deviance & social control; social institutions | | | | states of con-ciousness; memory; cognition; psychological disorders; abnormal psych | | | | supply & demand; market structure; fiscal policy; globalization; trade |
| **Foreign Language** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spanish | | | | | | | | | | | German | | | | | | | | | | | | | | French | | | | | | | | | | | | | | Latin | | | | | | | |
| Spanish culture; Spanish art; Spanish folktales; Ancient South & Central American civilizations; Spanish cuisine; Spanish dance; Spanish language; conjugations | | | | | | | | | | | German culture; the Rhine; German fairytales (anthology); Holocaust; German art; classical and modern German music; German language; conjugations & vocabulary | | | | | | | | | | | | | | French history; French revolutions of 18th & 19th centuries; Impressionism; Renaissance; French scientists; French language; conjugations & vocabulary | | | | | | | | | | | | | | Ancient Greek & Roman culture; classical mythology; Latin & Greek derivatives; ancient history; everyday Latin expressions in English | | | | | | | |
| **Performing Arts** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Band | | | | | | Chorus | | | | | | | | Orchestra | | | | | | | | | Piano | | | | | Guitar | | | | | | | | Theatre Arts | | | | | | | Advanced Theatre Studies | | | |
| pitch accuracy; posture, & embouchure; music styles (canon, chorale, etc.); history (Baroque, Renaissance, etc.) | | | | | | uniform vowel system; diction; major scales and intervals of Octave,  Perfect 5th, Perfect 4th, Major 3rd, & Minor 3rd. | | | | | | | | fingering techniques; bowing; tempo; articulation; dynamics; music styles & history | | | | | | | | | finger dexterity; hand-eye coordination; sight-reading competency; historical and cultural development of piano &/or guitar; correct hand, arm & wrist positions; scales, chords, & arpeggios; | | | | | | | | | | | | | lighting; costume; sound; make-up; American theatre; musical theatre; comedies and tragedies; improvisation; script interpretation | | | | | | | styles (comedy, tragedy, farce, musical); performance production (script to performance); stage; technical aspects (lighting, sound, etc.) | | | |
| **Visual Arts** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Art I, II, & III | | | | Ceramics | | | | | | | | | Painting and Drawing | | | | | | Computer Graphics | | | | | | | | Photography & Digital Photography | | | | | | Publications-Yearbook | | | | | | AP Studio Art | | | | | | AP Art History | |
| ceramics, sculpture, painting, digital art, & commercial art; influences of art on history and society | | | | purposes of ceramic works; application of hand-building; wheel-throwing, wedging, recycling clay, & glazing | | | | | | | | | feelings and moods in paintings; application of pencils, pen & ink, charcoal, pastel, tempura, & watercolor | | | | | | Photoshop, Freehand, Illustrator, Quark Express, & InDesign; work that requires multiple programs | | | | | | | | lenses; darkroom use; expertise in enlarging, cropping, solarizing, burning-in dodging, & mounting; Photoshop | | | | | | InDesign; staff organization, promotion, editing, advertising, circulation, & photography | | | | | | Drawing; painting; photography; ceramics; diagrams; animation; sculpture; fiber arts; computer graphics | | | | | | art interpretation; analysis of art throughout history; relationship between art and society | |
| **Health and Physical Education** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Health | | | | | | | | | Sports Medicine | | | | | | | | Fitness for Life | | | | | | | | | | | | | | Strength Training & Fitness | | | | | | | | | Team Sports | | | | | | |
| interpersonal relationships; knowledge of drug abuse; disease prevention & control; responsible decisions about sexual behavior | | | | | | | | | training programs; prevention, evaluation, & treatment of injuries; exercise physiology; sports psychology; internal medicine | | | | | | | | regular, moderate, and vigorous physical activities; movement effectiveness and safety; motor skills; relationship between exercise and stress reduction | | | | | | | | | | | | | | personal training needs; individualized training programs; understanding of performance-enhancing substances | | | | | | | | | basketball, volleyball, baseball; football, field hockey, swimming, & softball; focus on increased offensive and defensive skills; game participation rules | | | | | | |
| **Family and Consumer Science** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Child Development | | | | | | | | | | Personal Relationships & Parenting | | | | | | | Independent Living | | | | | | | | | | | | | | Nutrition | | | | | | | | | Cultures and Cuisine | | | | | | |
| childhood developmental stages; behavioral guidelines for children; factors that impact human growth; abnormal development stages | | | | | | | | | | personal vs. relationship needs; interpersonal communication skills; human development; conflict prevention; teamwork skills | | | | | | | employability skills; management of individual & family resources; consumer rights & responsibilities; financial resources; nutrition & wellness practices | | | | | | | | | | | | | | concept of ideal diet; food groups; essential nutrients; carbohydrates, fats, &oils; energy balance & metabolism | | | | | | | | | Meal planning; recipes; food preparation safety; geography & resources; international cuisine; food preparation & implementation of international cuisine | | | | | | |
| **Information Technology and Careers** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accounting | | | | | Keyboarding | | | | | | | | | | Management and Entrepreneurship | | | | | | | | | Computer Science and Programming | | | | | | | | | | | Website Development | | | | | | | | Agriculture | | | |
| accounting cycle; assets, liabilities; owner’s equity; financial statement preparation; payroll, income taxation, & managerial systems | | | | | input technologies; composition of personal and business documents; pursuit of employment via digital communication; keyboard architecture | | | | | | | | | | business organization; entrepreneur characteristics; target markets; business plans & records; human resources; supervision of employees | | | | | | | | | computer languages; numeric & symbolic computations; computer architecture; ethical issues; software engineering; algorithms & data structures | | | | | | | | | | | web site coding tools; software tools; key design concepts; multimedia elements; web site career paths; ethical issues | | | | | | | | metals; bio-related technology; engines and power; horsecare; pre-veterinary science; large animals; small animals; horticulture | | | |

Sources: Frederick County essential curriculum 2008-2009 located in *www.fcpsteach.org*; Samuel Mills, Mary Kay McDonald, Charlet Remus, Therese Wilson, Nancy Jones, Ambereen Khan, William Caulfield, and Jenica Gill