



Rising 8th Grade Parent Information Night

RISING 8TH GRADE TEAM:

MRS. SMYTH (DEAN)

MRS. ZEIDMAN (COUNSELOR)

8th Grade Required Courses

▶ Enrollment in the following “Heterogeneous” classes:

- English 8
- Physical Science
- Civics/Economics

▶ Math:

- Students currently in **Math 7** that have a Winter MAP RIT score of <229 will be recommended for Pre-Algebra. 230-235, the student will be placed into either Pre-Algebra or Algebra I based on teacher recommendation. 235 and above will be recommended for Algebra 1.
- Students currently in Algebra I will take Geometry.
- Students currently in Geometry will take Algebra II/Trig

▶ Other required courses:

- Health and P.E.
- Resource (Spectrum for 45 minutes)

Math 6	Foundations of Algebra (Math 7 SOL)	Algebra 1	FADA		Algebra 2/Trig	Mathematical Analysis	
			Geometry	Algebra 2 OR Algebra 2/Trig	AFM, Prob-Statistics/Discrete, AP Statistics, Computer Math, AP Computer Science	Precalculus, Prob-Statistics/Discrete, AP Statistics, Computer Math, AP Computer Science	
				Algebra 2/Trig	Precalculus	Mathematical Analysis	Calculus AB
					Mathematical Analysis	AP Statistics, Computer Math, AP Computer Science	Calculus AB or BC
Foundations of Algebra (Math 7 SOL)	Algebra 1	Geometry	Algebra 2	AFM, Prob-Statistics/Discrete, AP Statistics, Computer Math, AP Computer Science	AFM, Prob-Statistics/Discrete, AP Statistics, Computer Math, AP Computer Science	AP Statistics, Computer Math, AP Computer Science	
				Precalculus	Mathematical Analysis	Calculus AB or BC	
			Algebra 2/Trig	Calculus AB	Calculus BC	AP Statistics, Computer Math, AP Computer Science	
				Mathematical Analysis	Calculus BC	Multivariable Calculus Dual Enrollment	
	Pre-Algebra (Math 8 SOL)	Algebra 1	Geometry	Algebra 2	AFM, Probability-Statistics/Discrete, AP Statistics, Computer Math, AP Computer Science	AP Statistics, Computer Math, AP Computer Science	
				Algebra 2/Trig	Precalculus	Mathematical Analysis	Calculus AB
				Mathematical Analysis	Calculus AB or BC		
				Algebra 2	AP Statistics, Computer Math, AP Computer Science		

8th Grade Elective Courses

All students will choose two electives:

- ▶ Art 8
- ▶ 3-D Art
- ▶ Band 8 (must be currently enrolled in Band 7)
- ▶ Chorus 8
- ▶ Guitar 8 (must be currently enrolled in Guitar 7)
- ▶ Strings 8 (must be currently enrolled in Strings 7)
- ▶ Coding at the Middle School (CAMS)
- ▶ French I/II, German I/II, Latin I/II, Spanish I/II, SFI/II (high school credit)
- ▶ Teen Living
- ▶ Manufacturing
- ▶ Robotics
- ▶ Teacher Cadet
- ▶ Communication Studies
- ▶ AVID
- ▶ Tech Ed 8

3D Art

- ▶ This course is designed to allow 8th grade art students the opportunity to explore three-dimensional art through the creative process using the elements and principles of design.
- ▶ Students will initiate and develop innovative ideas as they explore multimedia forms while applying depth, space, volume, and surface in an integrative way.
- ▶ Various experiences will provide students with hands on creative challenges to discover sculpture, architecture, ceramics, and assemblage.
- ▶ Collaborative experiences will allow students unique opportunities to possibly create a 3D installation for the school and/or community.

Teacher Cadet

- ▶ This exploratory course fosters student interest, understanding, and appreciation of the teaching profession and allows students an introduction to careers in education.
- ▶ Students are taught to develop self-awareness, collaborate and communicate with peers, build positive learning environments, and discover learning differences of others. The curriculum is designed to help students set attainable goals in the Education and Training Career Cluster.
- ▶ Additional educational leadership opportunities are offered through the student organization, Educators Rising. This course counts as an elective credit.

Robotics

- ▶ Students engage in the study of computers and microprocessors and their applications to manufacturing, transportation, and communication systems.
- ▶ Topics include computer equipment and operating systems, robotics, programming, control systems. And social/cultural impact of these technologies.
- ▶ Problem-solving activities challenge students to design, program, and interface devices with computer systems. Learning activities include robotics, computer-aided design, computer-aided manufacturing and design, and control of electromechanical devices.
- ▶ Lab Fee: \$10.00

Tech Ed 8

- ▶ Technology Education is an elective course which can be taken for a full year.
- ▶ It is a comprehensive class using a multimedia and modular technology education approach.
- ▶ Students will experiment, design, invent, create, build, test, and analyze while exploring 14 different technology areas.
- ▶ This course helps students understand how knowledge, tools and resources work in technological systems and benefit society.
 - ▶ By simulating systems and assessing their impacts and influences on people, students gain insight into how to approach the problems and opportunities of the technological world.

CAMS – Coding at Middle School

- ▶ CAMS is an introduction to computer science which integrates mathematics concepts, focusing on problem solving. Students will create and share their own interactive stories, animations, games, music, and art.
- ▶ Students will develop programming projects in which they learn skills that are critical to future success: thinking creatively, communicating clearly, analyzing systematically, using technologies fluently, collaborating effectively, designing interactively, and learning continuously. Scratch and other programming languages will be used in this course.

AVID

- ▶ AVID, or Advancement via Individual Determination, is a national program targeting students in the academic middle – “B”, “C”, or even “D” students – who have a desire to go to college and the willingness to work hard in rigorous middle and high school courses.
- ▶ AVID students enroll in honors and AP courses, when eligible, and an AVID elective course.
- ▶ During this elective class, students learn organizational and study skills, work on building critical thinking skills, receive academic help from peers and tutors, and participate in enrichment and motivational activities.

Important notes when taking a World Language

- ▶ For an Advanced Studies Diploma, students must successfully complete three years of one language or two years each of two different languages.
- ▶ Some colleges may require more than the minimum number of world language credits currently needed for the Advanced Studies Diploma.
- ▶ Colleges are looking for students to continue a language through their senior year of high school.
- ▶ It is recommended that a student earn at least a "B" in order to progress to the next level of language study.
- ▶ The State Seal of Biliteracy is awarded to qualifying graduating students with proficiency in English and one or more other languages

Advanced Studies Diploma Requirements

Subject Area	Standard Credits	Verified Credits	Specifications
English	4	2	N/A
Mathematics	4	1	Courses completed to satisfy this requirement shall include at least three different course selections from among: algebra I, geometry, algebra II, or other mathematics courses above the level of algebra II. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit.
Laboratory Science	4	1	Courses completed to satisfy this requirement shall include course selections from at least three different science disciplines from among: earth sciences, biology, chemistry, or physics or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve additional courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit.
History and Social Sciences	4	1	Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and two courses in either world history or geography or both. The board shall approve additional courses to satisfy this requirement.
World Language	3	0	Courses completed to satisfy this requirement shall include three years of one language or two years of two languages.
Health and Physical Education	2	0	N/A
Fine Arts or Career and Technical Ed	1	0	Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical credit.
Economics & Personal Finance	1	0	N/A
Electives	3	0	Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.
Total Credits	26	5	N/A

Standard Diploma Requirements

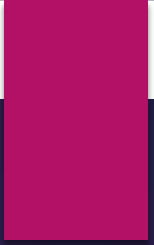
Subject Area	Standard Credits	Verified Credits	Specifications
English	4	2	N/A
Mathematics	3	1	Courses completed to satisfy this requirement shall include at least two different course selections from among: algebra I, geometry, algebra functions, and data analysis, algebra II, or other mathematics courses approved by the board to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a mathematics course credit.
Laboratory Science	3	1	Courses completed to satisfy this requirement shall include course selection from at least two different science disciplines: earth sciences, biology, chemistry, or physics, or completion of the sequence of science courses required for the International Baccalaureate Diploma and shall include interdisciplinary courses that incorporate Standards of Learning content from multiple academic areas. The board shall approve courses to satisfy this requirement. Per the Standards of Quality, a computer science course credit earned by students may be considered a science course credit. Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.
History and Social Sciences	3	1	Courses completed to satisfy this requirement shall include Virginia and U.S. history, Virginia and U.S. government, and one course in either world history or geography or both. The board shall approve courses to satisfy this requirement. Students who complete a career and technical education program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association, or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for either a laboratory science or history and social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.
Health and Physical Education	2	0	N/A
World Language, Fine Arts or Career and Technical Education	2	0	Per the Standards of Quality, credits earned for this requirement shall include one credit in fine or performing arts or career and technical education. Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical course credit.
Economics & Personal Finance	1	0	N/A
Electives	4	0	Courses to satisfy this requirement shall include at least two sequential electives as required by the Standards of Quality.
Total	22	5	N/A

What is a verified credit?

- ▶ A verified unit of credit is earned by passing a course and its related end-of-course Standards of Learning (SOL) test. Students may repeat end-of-course tests to earn the verified credits needed for graduation. Verified credits may only be earned in a class taken at the HS level.
- ▶ Classes that have SOLs:
 - ▶ MATH: Algebra I, Geometry, Algebra II, Algebra II/Trigonometry
 - ▶ SCIENCE: Biology, Chemistry, Earth Science
 - ▶ ENGLISH: Reading and Writing (both tests administered in English 11)
 - ▶ HISTORY:
 - ▶ World History and Geography to 1500
 - ▶ World History and Geography, 1500 to Present
 - ▶ United States History

Expunging Grades

- ▶ Applicable to high school credit courses taken during middle school
- ▶ Expunges BOTH the grade AND the credit
- ▶ Requires re-taking the course to receive credit and to move onto subsequent levels
- ▶ Expungement forms will be sent home with all FINAL report cards.



Thank you for your time! Any questions?

Any additional questions, please contact:

Mrs. Smyth: kelly.smyth@lcps.org

or

Mrs. Zeidman: taryn.zeidman@lcps.org