

# WELCOME TO LIBERTY MIDDLE SCHOOL



## Rising 7th Grade Curriculum Night

January 24, 2019

# Student Services Department

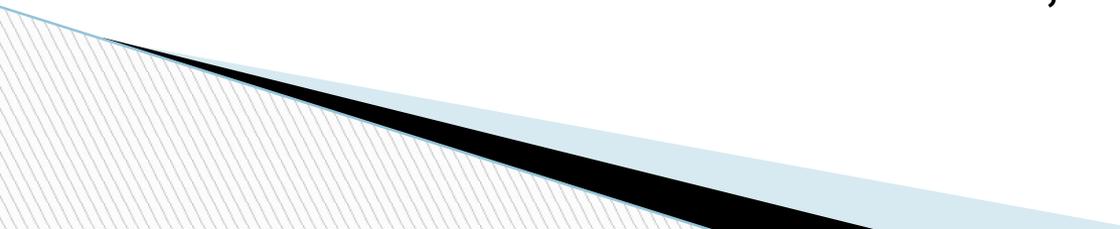
Renee Pete, Director of Student Services

Shirley AlvarezLeon, Counselor

Scott Steele, Counselor

Madison Fleming, Counselor

Paula Cotman, Counselor

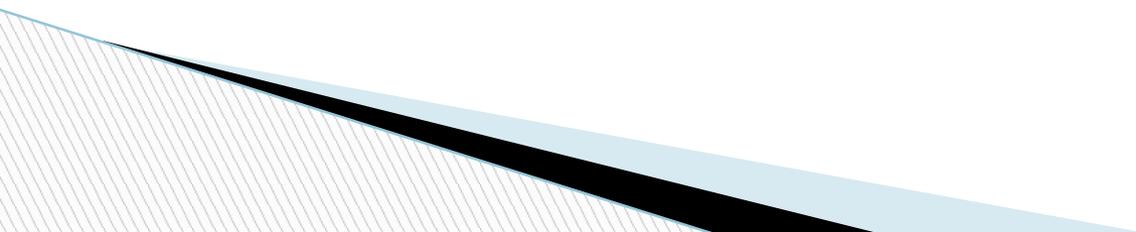




**WHAT SHOULD THE  
MIDDLE SCHOOL  
STUDENT EXPECT ?**



**POSITIVE BEHAVIOR**  
**INTERVENTION AND SUPPORT**



# LIBERTY LIONS 3 R's



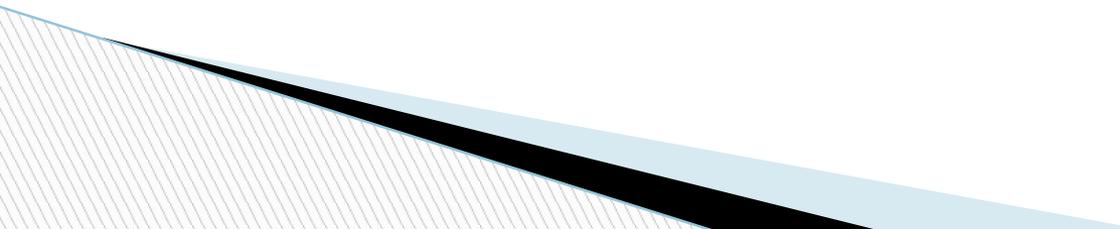
**R** E S P E C T F U L

**R** E S P O N S I B L E

**R** I G H T O N T I M E



**THE  
POSITIVITY  
PROJECT**





# Top 10 Ways to be Successful in Middle School

1. Do your **HOMework** everyday
  2. Ask your **COUNSELOR/TEACHERS** for help
  3. Use your **PLANNER** daily
  4. Use **FREE TIME** effectively
  5. Stay **AFTER SCHOOL** for help
  6. **PARTICIPATE** and ask **QUESTIONS**
  7. Set realistic **GOALS**
  8. Pay **ATTENTION**
  9. Be **ON TIME** to class, every period
  10. **DO NOT MISS SCHOOL**, unless you are sick!
- 

# Elementary School Visits

- ★ Liberty counselors are starting to visit schools this week
  - ★ Students will bring home course selection sheet.
  - ★ Signed course selection sheet is due back to elementary school.
  - ★ Course selection book is available on our website.
  - ★ Elementary students will visit Liberty on April 10 th or 11th.
- 

# \*New: Online course selection

## What Parent Sees

- Parents cannot edit only view

The screenshot shows a web application interface for course selection. At the top, there are navigation tabs for 'Home' and 'My Account'. Below this, a user profile section for 'Gene' is visible, including a profile picture, name, and contact information for Robinson HS Training. A welcome message states: 'Welcome to the District's online course request selection website!'. The main content area is titled 'Selected Course Requests' and includes a 'Selection Time Period: 11/2/2018 - 1/31/2019'. Below this is a table with columns: Ln, Course ID, Course Title, Department, Elective, Credit, and Cor. The table lists four selected courses. Below the table is a section for 'Alternate Elective Requests (in preference order) - Select at least 6 alternates', which is currently empty with the message 'No alternate course requests have been selected or assigned.' A left-hand navigation menu contains various options like Messages, Calendar, Attendance, etc.

Ln	Course ID	Course Title	Department	Elective	Credit	Cor
1	▶ 236036	US VA History HN	Social Studies		1.000	
2	▶ 317704	AP Calculus BC	Mathematics		1.000	
3	▶ 433000	Human Anat & Phys	Science	Yes	1.000	
4	▶ 451007	IB Physics I	Science		1.000	
					4.000	

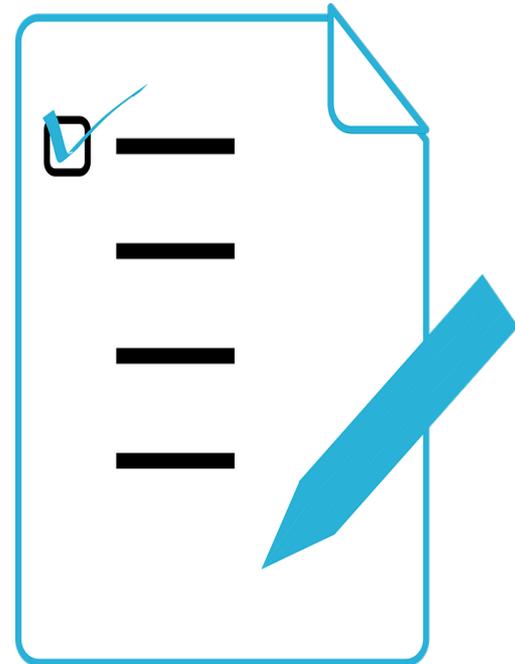
  

Ln	Course ID	Course Title	Department	Elective	Credit	Cor
No alternate course requests have been selected or assigned.						



# 7th Grade Schedule

- ✓English 7
- ✓Math
- ✓US History
- ✓Science
- ✓Health & PE 7
- ✓2 Electives
- ✓Lion Time



# Standard vs. Honors

(English, Science & Social Studies)

## Standard Classes

**Virginia standards of learning & FCPS programs of studies. (Content & Curriculum)**

- Support from teacher built into class time.
- Teaches self advocacy skills and student skills such as study habits, time management & organization.

## Honors Classes

**Virginia standards of learning & FCPS programs of studies. (Content & Curriculum)**

- Faster pace and more independent work
- Includes more writing and critical thinking
- Students are expected to have self-advocacy skills and study skills such as study habits, time management & organization

# Is Honors right for me?

- Do you have a *genuine interest* in the subject area?
- Are you *responsible* in completing homework and assignments on time?
- Are you *organized*? ( With your planner, assignments, locker, books and time?)
- Do you *take the initiative* to ask questions, research answers and solve problems?
- Do you *read and comprehend* well?
- Do you *participate* in classes?



# Electives

- Some electives are **full year** and some are **semester** classes
- You have 2 elective periods to fill:



# Mathematics Options



Fairfax County Public Schools

# PORTRAIT OF A GRADUATE



**GLOBAL CITIZEN**



**COLLABORATOR**



**CREATIVE AND  
CRITICAL THINKER**



**SELF-DIRECTED  
AND RESPONSIBLE  
INDIVIDUAL**



**COMMUNICATOR**



Which one doesn't belong?

54	64
81	144

# Five goals for students to...

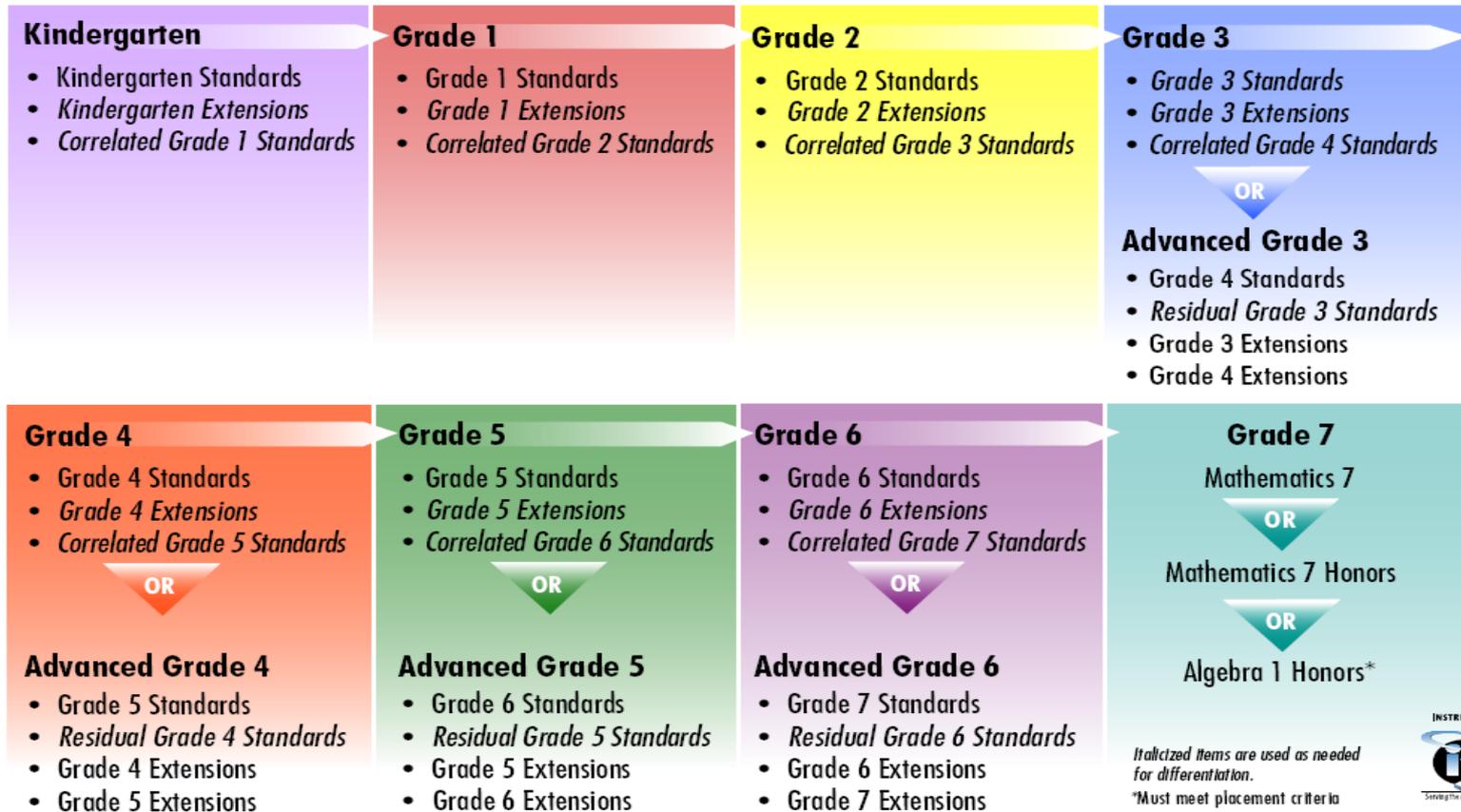
- become mathematical **problem solvers** that
- **communicate** mathematically;
- **reason** mathematically;
- make mathematical **connections**; and
- use mathematical **representations to model** and interpret practical situations



# Elementary Mathematics

FAIRFAX COUNTY PUBLIC SCHOOLS

## Elementary Mathematics Instructional Sequence and Advanced Mathematics



# Secondary Mathematics

## MATHEMATICS ACADEMIC SEQUENCE OF COURSES K-12 -- AP PYRAMIDS

ELEMENTARY SCHOOL	MIDDLE SCHOOL		HIGH SCHOOL			
Grades K -6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Curriculum defined by: <ul style="list-style-type: none"> <li>Program of Studies (POS) of Fairfax County Public Schools</li> <li>Standards of Learning (SOL) of Commonwealth of Virginia</li> </ul> Content includes: <ul style="list-style-type: none"> <li>Numerical Relationships</li> <li>Operations</li> <li>Measurement</li> <li>Geometry</li> <li>Data Analysis, Statistics and Probability</li> <li>Patterns, Functions, and Algebra</li> </ul> Advanced Math Curriculum	Algebra 1 Honors <sup>1</sup>	Geometry Honors	Algebra 2 Honors	Precalculus Honors <sup>2</sup>	AP Calculus BC	Multivariable Calculus <sup>3</sup>
	Mathematics 7 Honors or Mathematics 7	Algebra 1 Honors or Algebra 1	Geometry or Geometry Honors	Algebra 2 or Algebra 2 Honors	Precalculus <sup>2</sup> or Precalculus Honors <sup>2</sup>	AP Calculus AB or AP Calculus BC <sup>4</sup>
	Mathematics 7	Prealgebra	Algebra 1	Geometry	AFDA <sup>5</sup> or Algebra 2	Algebra 2 or Precalculus or Mathematics Elective <sup>6</sup>

1. Students enrolling in Algebra 1 Honors in 7<sup>th</sup> grade must meet placement criteria.
2. Precalculus and Precalculus Honors include Trigonometry.
3. Multivariable Calculus is a one semester course followed by Matrix Algebra.
4. The prerequisite for AP Calculus BC is Precalculus Honors.
5. AFDA is Algebra, Functions, and Data Analysis and is a bridge course to Algebra 2 for students needing additional support in mathematics.
6. Mathematics Electives vary by school and include: Trigonometry (semester), Probability and Statistics (semester or year), Discrete Math (semester or year), AP Statistics, Computer Science, AP Computer Science A, AP Computer Science Principles.

# Secondary Mathematics

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# 7<sup>th</sup> Grade Mathematics Courses

## Algebra 1 Honors

Each of the following criteria needs to be met for placement in Algebra I Honors at 7<sup>th</sup> grade:

- Advanced Mathematics 6 or a year-long accelerated mathematics course
- Iowa Algebra Aptitude Test (IAAT) score at or above the 91<sup>st</sup> percentile
- A score of pass advanced (500 or above) on the Mathematics 7 SOL test

# 7<sup>th</sup> Grade Mathematics Courses

## Mathematics 7 Honors

- The depth and level of understanding in Mathematics 7 Honors is beyond the scope of Mathematics 7.
- This course is based on **the Prealgebra** curriculum and includes extensions and enrichment.

# Mathematics 7 Honors

- Mathematics 7 Honors is an acceleration of the mathematics curriculum.
- Requires students to master the content assessed on the Mathematics 8 (Prealgebra) Standards of Learning (SOL) test.

# Mathematics 7 Honors

- ❑ Students who have not completed Advanced Mathematics 6 may need support and/or require additional effort and studying outside of school. In reality, these students have not completed Mathematics 7 content.

# Mathematics 7 Honors

- Key take-away:

Both Mathematics 7 **and** Mathematics 7 Honors prepares students for Algebra 1 or Algebra 1 Honors in Grade 8.

# Mathematics 7

- This survey course provides opportunity for students to examine:
  - algebra- and geometry-preparatory concepts and skills;
  - strategies for collecting, analyzing, and interpreting data;
  - and number concepts and skills especially proportional reasoning.

# 7<sup>th</sup> Grade Mathematics Courses

- Which course is best for your child?
  - Open enrollment/Informed decision
- Recommendation
  - A discussion with child and teacher(s).
  - Both Mathematics 7 Honors and Mathematics 7 lead to Algebra in 8<sup>th</sup> grade.
  - Based on your child's schedule, what is best for him/her?

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# 8<sup>th</sup> Grade Mathematics Courses

- Pre-Algebra (used to be Mathematics 8)
- Algebra 1 or Algebra 1 Honors
  - OPEN ENROLLMENT
  - READINESS
- Geometry Honors

# Algebra 1 in Grade 8

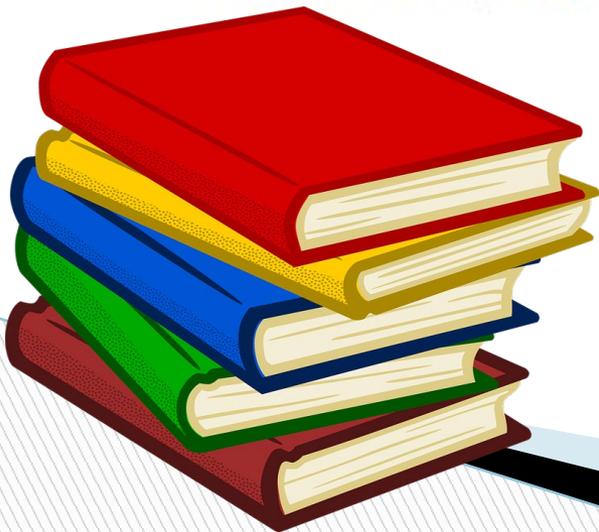
- Students are on a pathway to Advanced Placement (AP) Calculus in grade 12
- Opens up different Science options in high school
  - Honors Chemistry in grade 10 (co-requisite Algebra 2)
  - AP Physics in grade 12 (co-requisite AP Calculus)

# How to support your child

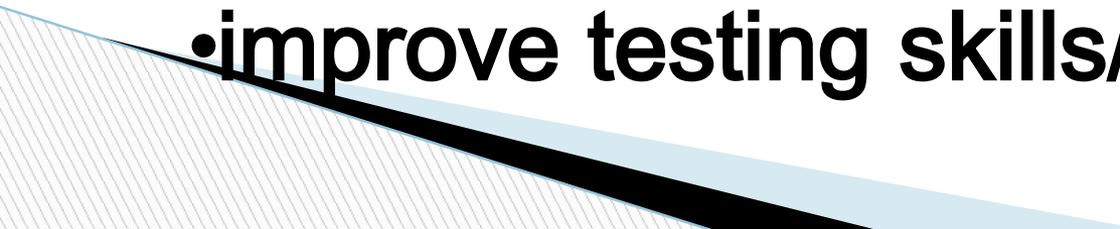
- Help them develop a mindset that they can be successful in mathematics.
- Ask them what they did in mathematics class today. Show them you are interested in mathematics.
- Encourage them to get help/assistance from their teacher when they do not understand. Liberty MS mathematics teachers are awesome.

# English 7 & English 7 Honors

Writing<sup>Research</sup>  
English Collaboration  
Creativity Critical Thinking  
Vocabulary Communications Reading  
Media Literacy



# Program Goals:

- build reading comprehension
  - communicate effectively
  - develop media literacy
  - apply reading skills across all subject areas
  - improve testing skills/strategies
- 

# Reading and Writing Expectations:



**Reading:** variety of fiction and nonfiction

- short stories, novel excerpts, articles, biographies
- independent reading and reading logs

**Writing:** formal and informal writings

- narrative, expository, persuasive, and teacher's choice

**Other Skills:** basic grammar skills, essential study skills, and word parts

- parts of speech, punctuation, capitalization
- proofreading, following directions, managing time

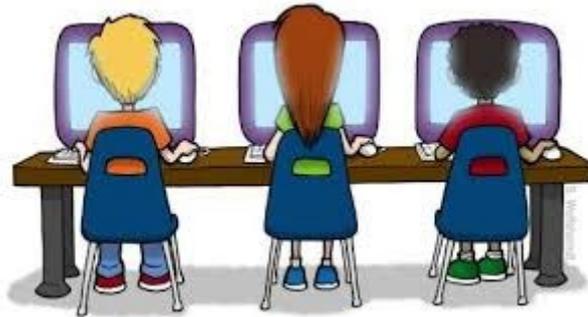
# English 7 Honors

- Extends and enriches the program of study
- Quicker pace and increased rigor
- Higher level thinking skills utilized and expected
- Superior work habits expected
- High interest and enthusiasm for reading and writing
- Natural intellectual curiosity
- Self - motivated
- Strong background knowledge



# Seventh Grade Reading SOL

- CAT Test: adapted to student's answers
- Untimed assessment given in May



# SCIENCE



## Three (3) Strands:

- ▶ Understanding Our Environment  
(Ecology & Chesapeake Bay Watershed)
- ▶ Observing Living Things
- ▶ Exploring Heredity and Diversity

# Understanding Our Environment

- Model Ecosystem / MWEE
- Water Quality Testing
- Flow of Energy and Interdependence within an Ecosystem



# Chesapeake Bay

- Environmental Factors / Importance
- Human Impact



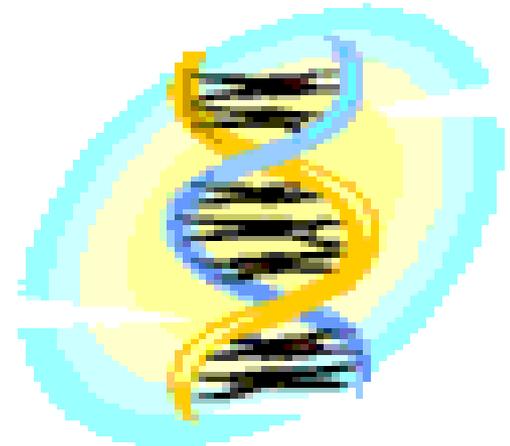
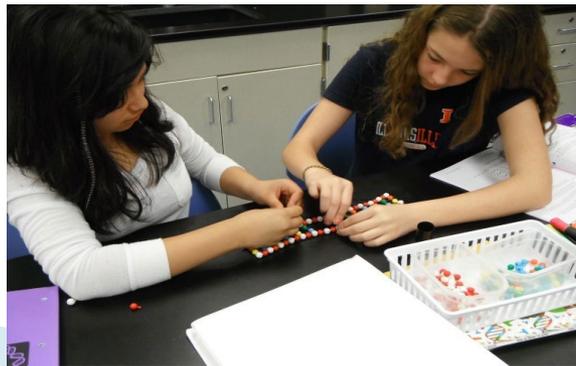
# Observing Living Things

- Plant vs. Animal Cells
- Cell Parts and Functions
- Cell Organization and Life Processes
- Cell Division



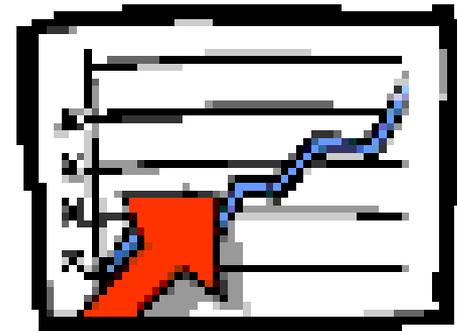
# Exploring Heredity & Diversity

- Trait Determination and Prediction
- Structure and Role of DNA
- Genetic Engineering
- Classification
- Six kingdoms and the major phyla



# Applying Science Skills

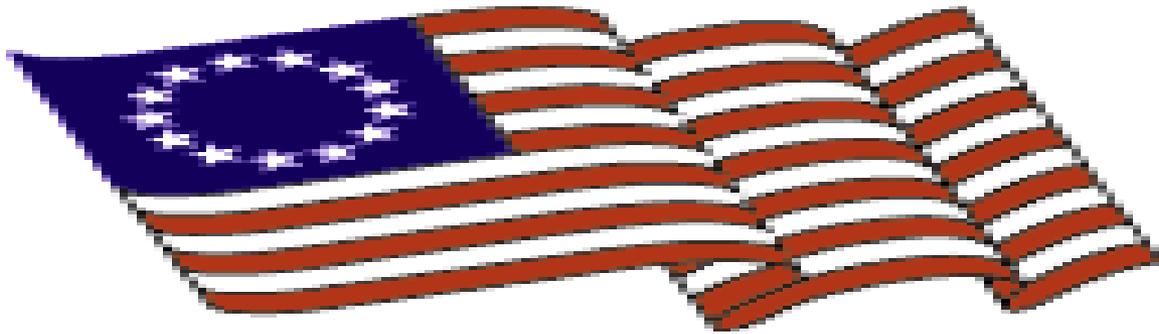
- Observation / Inference
- Hands on Investigations
- Experimental Design
- Practical Applications of the Metric System
- Graphing Skills



# Science 7 Honors students:

- ▶ Exhibit strong work habits
- ▶ Work cooperatively within groups
- ▶ Conduct independent research and analysis
- ▶ Engage in high level academic conversation - supporting their ideas
- ▶ Use writing skills to convey knowledge
- ▶ Apply critical and creative thinking to new situations

# SOCIAL STUDIES



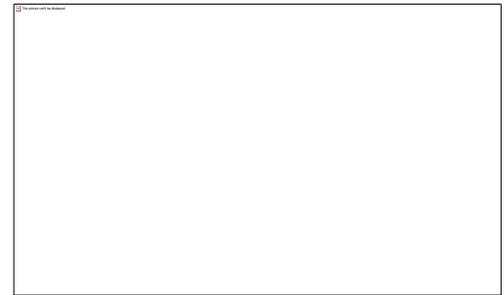
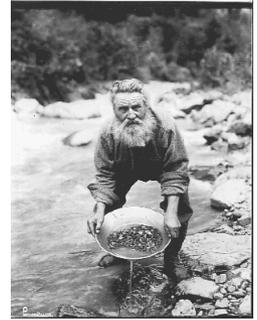
## **Survey of U.S. History 1865-present**



# SOCIAL STUDIES

## Units of Study

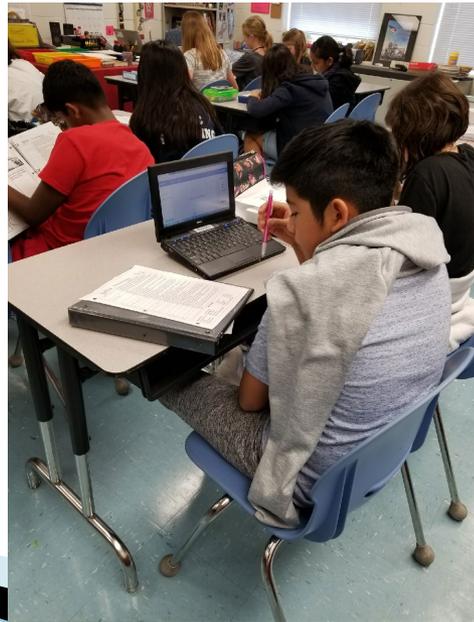
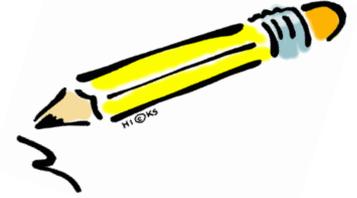
- Geography of the U.S.
- Reconstruction & Segregation
- Westward Expansion
- Rise of Big Business & Labor
- Immigration & Progressives
- Imperialism & Spanish-American War
- World War I
- The Roaring '20s
- The Great Depression & New Deal
- World War II
- Postwar Economy
- The Cold War
- Civil Rights Movement
- Globalization



# SOCIAL STUDIES

## Skills

- Note taking
- Distinguishing between important and extraneous information
- Fact v. Opinion
- Cause and Effect
- Using Maps / Reading Charts & Graphs
- Analyzing Political Cartoons
- Sequencing events in United States history



# Activities

- Simulations
- DBQs (Document-based Questions) and HATs (Historical Assessment of Thinking) Writing Exercises
- Debates / Discussion
- Analysis of Primary Source Documents
- Technology Applications



*Ellis Island Simulation*



*Great Depression  
Boom to Bust*

SOCIAL STUDIES

## Use of Technology



Our textbook is on-line, easily accessible from school or home.



Students have access to laptop computers in the classroom

# How is Honors different?

- Topics explored in greater depth and complexity
- Demand for higher level thinking skills
- An expectation of strong work habits
- Variation in lessons and instructional methods
- More independent learning activities

*To enroll in Honors history, students should display a genuine interest in the study of history!*



# Health and Physical Education

## FCPS OBJECTIVES:

- Understand the benefits of achieving and maintaining a physically active lifestyle.
- Acquire the knowledge, processes, and skills to engage in meaningful physical activity for a lifetime.
- Benefits: personal enjoyment, challenge, increased self confidence, and a health-enhancing level of personal fitness.



# HIGHLIGHTS OF 7<sup>TH</sup> GRADE HP

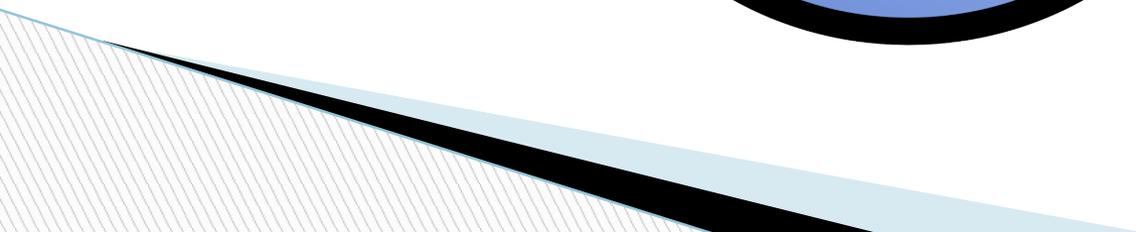


- HUMAN GROWTH AND DEVELOPMENT (5 DAY UNIT)
- HEALTH (9 WEEKS)
- 50-MINUTE CARDIO WORKOUTS  
HEART MONITORS
- FITNESS AND NUTRITION TRAINING
- WEIGHT ROOM/WEIGHT TRAINING





# Course Information Fair





# Sign up for Parent Vue!

