Rising 7th Grade Curriculum Night 2020
Objectives

● To become familiar with the course offerings for the 2020-2021 school year

● To understand the timeline for the transition program
School Counselor’s Role in the Middle School

• Help with the transition to middle school
• Help in solving problems
• Peer relationships
• Study skills and organization
• Career Information
• Academic Advising
Administrative Team

Principal
Mr. Grimm

Associate Principal
Ms. Rogers

Director of Student Services
Mr. Hopkins
Administrative Team

Assistant Principal
Mr. Ausbrooks
Fairfax Hall
Last Names A-F

Assistant Principal
Ms. Boehme
Fairfax Hall
Last Names G-N

Assistant Principal
Mrs. Ritchie
Jefferson Hall
Last Names O-Z
School Counselors

Mr. Dodson Dav-Kia

Ms. Brussel Kib - Rh

Ms. Raffaelli Ri - Z

Dr. Henry A - Dat
Required Courses at Hayfield

7th Grade
CLASSES

- 5 required classes:
  - English/English HN
  - US History/US History HN
  - Science/Science HN
  - Math/Math 7 HN
  - Health & PE

- 2 periods of Electives:
  - 2 Year long electives - OR - 1 Year long elective and 2 half year electives - OR - 4 half year electives
Core Classes

Honors vs General Education
Physical Education
7th grade Physical Education & Health

Physical Education:
- Fitness and Conditioning, Eclipse Ball (Racquet Sports), Indoor Games, Basketball, Tchoukball, Track & Field

Health: (9 Weeks)
- **Alcohol Tobacco, and Other Drugs:** Substance Abuse Statistics, Refusal Skills, Inhalants, Tobacco, Alcohol, Marijuana, Addiction, Laws and Consequences
- **Personal and Community Health:** Health Wellness and Decision Making, Health Practices (sleep, nutrition), Academic Success, Goal Setting, Community Health
- **Emotional Social Health:** Healthy Friendship and Family Relationships, Personal Safety, Internet and Technology Safety (includes gang and sex trafficking safety), Self-Esteem
- **Human Growth and Development**
7th grade English
Reading

Student will read a variety of both fiction and non-fiction texts to include:

- Whole Class Novels
- Literature Circle Novels
- Independent/Choice Reading Novels
- Short Stories
- Articles
- Poems
Reading Skills

- Inferring
- Main Idea/Summary
- Plot
- Characterization
- Theme
- Text Structure/Organizational Patterns
Writing

Students will work to develop their abilities and confidence as writers in various formats to include:

- Paragraphs
- Personal Narratives
- Essays
- Journals
- Summaries
Other Areas of Study

• Grammar and Mechanics
• Research
• Vocabulary (roots and affixes/determining meaning in context)
English 7 Honors

Students should be:

• *Self motivated to read more challenging texts and complete projects at home*
• *Willing to push themselves as writers*
• *Enjoy collaboration and active participation in discussions and group work*
English Intervention Courses

Action Literacy--1 semester
For students who are slightly below grade level in reading ability.

LAP (Literacy Access through Participation)--Full Year
For students who are two or more years behind in their grade level reading expectations.

*Placement in these courses is determined through data and recommendations from elementary schools.
English Electives

Please check out our English Electives!

Creative Writing--1 semester course

Journalism (Yearbook)--Full Year course
US History 7
U.S. History II

U.S. History 1865-2001 (Reconstruction - 9/11)

- Jim Crow, Wild West, Industrialization
U.S. History II

U.S. History 1865-2001 (Reconstruction - 9/11)

● Urbanization, Immigration, Progressives
U.S. History II

U.S. History 1865-2001 (Reconstruction - 9/11)

- Imperialism, WWI, Jazz Age, Depression
U.S. History II

U.S. History 1865-2001 (Reconstruction - 9/11)

- WWII, Post-War Economy, Cold War
U.S. History II

U.S. History 1865-2001 (Reconstruction - 9/11)

• Civil Rights, Globalization
Honors U.S. History II

- Extension of U.S. History 7 curriculum
- Does NOT expect students have already mastered course content
- Expects that students are motivated to study and practice as historians
- Expects that students desire to complete challenging assignments - more analytical writing
Honors U.S. History 7

Instruction may be:

- Compacted
- Extended
- Enriched
- Accelerated
- Analytical Writing
- Document Based Questions
Honors U.S. History 7

Students will make connections across time, place and subject areas

- Perform as practitioners or scholars of history
- Self-assess
- Reflect on their learning and learning process

The instruction is enriched through research-based practices designed to engage and challenge advanced learners.
7th grade- Life Science
7th Grade Life Science

- Builds upon experiences and provides foundation
- Four content strands
  - Observing living things
  - Understanding populations and ecosystems
  - Chesapeake Bay
  - Exploring heredity and diversity
- Strands developed through variety of instructional strategies
  - Observation
  - Experimentation
  - Discussion
  - 85% hands on learning
- Learn concepts in a variety of ways
  - laboratory investigation, making predictions, designing experiments, collect and organize data in charts and graphs, models, communicate results
  - Computer technologies integrated with instruction
    - wireless lab stations, digital camera, application software, flex camera
First semester

Students investigate interactions of living things with environment
–Observations, Classification/Change Over Time, Biomes
–Work in small groups to build mini ecosystems
–Make detailed observations and inferences about the interdependence of living and nonliving things, H2O testing
–Create Food Chains and Food Webs
–Apply basic ecological concepts to explore human interactions with Chesapeake Bay Watershed
Second semester

Students investigate characteristics of living things

– Use compound microscopes to observe a variety of plant and animal cells to see similarities and differences

– Study pattern of organization in multicellular organisms, look at cell processes – osmosis, diffusion, photosynthesis

– Review life processes of living things

– Introduced to genetic principles of how living things pass traits from one generation to the next, DNA

– Experimental Design
Science vs. Science Honors

Science
- Builds upon experiences from elementary school dealing with life and physical science concepts
- Hands on investigations with collaborative learning goals
- Collect and analyze data
- Formulate conclusions

Science Honors
- Have more background knowledge
- Are motivated
- Have good study skills
- Participate in more extension activities
- Think creatively and critically
- Perform as a practitioner
- Progress toward expertise
- Self-assess/Self directed
World Languages
World Languages: the highlights

- What languages are offered at Hayfield?
  - Arabic
  - French
  - Japanese
  - Latin
  - Spanish

- What do I need to know about taking a language?
  - This is an academic elective
  - There will be homework assigned most nights
  - Helps to develop a deeper understanding of English
World Languages: When to start?

7th Grade Level 1A
8th Grade Level 1B
9th Grade Level 2
10th Grade Level 3
11th Grade Level 4
12th Grade Level AP

8th Grade Level 1
9th Grade Level 2
10th Grade Level 3
11th Grade Level 4
12th Grade Level AP

9th Grade Level 1
10th Grade Level 2
11th Grade Level 3
12th Grade Level 4

10th Grade Level 1
11th Grade Level 2
12th Grade Level 3
7th grade Mathematics
Math Course Offerings Flowchart

Math 6

Advanced Math 6

Math 7

Math 7 Honors

PreAlgebra (formally Math 8)

Algebra 1

Algebra 1 Honors

Geometry Honors

*Student must test into this course.
Math 7

Builds directly on Math 6 concepts (depth & rigor)

(i.e. instead of changing a fraction to a decimal, students learn to compare and order a set of fractions, decimals, and percents)

Topics include:
- Numerical Operations & Expressions
- Equations & Inequalities
- Functions & Intro to Slope
- Proportions & Percent Applications
- Geometry & Measurement
- Probability & Statistics
Math 7 Honors

- Open enrollment

- Students are expected to have mastered the Math 7 curriculum prior to enrolling in Math 7 Honors.

- Math 7 Honors covers the PreAlgebra(8th grade) curriculum with extensions and enrichment. (Topics include: Equations, Functions, Ratios, Percents, Proportions, Geometry and Measurement, Probability/Statistics)

- Students take the PreAlgebra(8th grade) Standards of Learning (SOL) Test.
Math 7 Honors

Students who have NOT completed Advanced Mathematics 6 may need support and/or require additional effort and time prior to enrollment in Math 7 Honors to be successful.

Topics students might need assistance on include:
- Performing operations with absolute value and square roots
- Adding/subtracting/multiplying/dividing integers
- Solving two-step equations with rational numbers
- Solving multi-step proportional reasoning and practical problems
Algebra 1 Honors

**ALL** of the following criteria needs to be met for placement in Algebra 1 Honors in 7th grade:

- Advanced Math 6 or a year-long accelerated mathematics course
- IOWA Algebra Aptitude (IAAT) score at or above the 91st percentile
- A score of pass advanced (500 or above) on the Mathematics 7 SOL Test
Algebra 1 Honors

- High school level course but more in depth than Algebra 1
- Building block for higher level math courses in high school
- Students take the Algebra 1 SOL Test

Topics include:
- Equations
- Rate of Change (Slope)
- Forms of Linear Functions
- Systems of Linear Equations
- Exponents and Radicals
- Polynomials
- Quadratics
# Math Intervention Courses

<table>
<thead>
<tr>
<th>Math 180</th>
<th>PowerMath</th>
<th>SOAR 4</th>
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<tbody>
<tr>
<td>The most intensive math intervention course offered. This class is intended for students who are more than two years behind in their abilities. Focuses on foundational math building blocks and number sense skills.</td>
<td>This intervention class is for students who are about one to two years behind in their abilities. Focuses on current Math 7 concepts as well as some prior foundational concepts.</td>
<td>This intervention is the least intensive and is intended for students who need a little extra help or time to master the current content.</td>
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Elementary teachers & counselors usually make recommendations for these courses based on historical and current data but parents can elect for their student to take them as well.
Electives

Year-long and Semester Options
Hayfield Secondary School
Middle School Technology and Engineering Education Sequence
SY 2020 – 2021

Hands-on, Project Based Learning (PBL) STEM Curriculum
Open to 7th and 8th graders

**Engineering 1**
- **Design and Modeling**
  - Transportation: Air Dragsters, Egg Crash Cars, Mag-lift cars
  - Structures: Towers, Trusses
  - 3D Design and printing
  - Aeronatics: Rockets, Gliders
  - Engineering Design Process Fundamentals
    - Hand tools

**Engineering 2**
- **Simulation and Fabrication**
  - *Prereq = Engr 1 or Any Tech Ed 2019-2020*
  - Transportation: CO2 Dragsters
  - Basic Electronics
  - Structure: Bridges, Cantilever
  - VEX IQ Robotics and coding
  - Advanced 3D Design using Sketchup
    - Solid Fuel Rockets
    - Power tools: Drill press, scroll saw

**Engineering 3**
- **Advanced Design and Prototyping**
  - *Prereq = Engr 2*
  - Advanced VEX IQ, Robotics and Coding
  - Advanced Electronics
  - Advanced 3D Design using Autocad Inventor
    - Renewable Energy
    - "Capstone" Project
    - Advance Engineering Design Process
  - Power tools: Engr 2 tools + Band Saw, belt sander, Power Hand Tools
Family and Consumer Sciences 7th and 8th

FACS

Families! Careers! Communities!
*nutrition and wellness
*food preparation
*relationships
*personal environments
*textiles
*fashion and apparel
*consumer resources
*child development and care
*leadership services
**Middle School BIT**

**Computer Solutions**
Offered to both 7th and 8th graders
No computer knowledge needed

What do we learn?
- **Keyboarding/typing skills**
- **Career Clusters** – review different career options
- **Microsoft Word** – practice formatting by:
  - Manipulating pictures of your favorite things to create a picture of yourself
  - Write a news story about visiting another planet and drawing a picture (on the computer) about what you find
  - Cover letter
  - Planning a trip for a family of four
- **Microsoft Excel** – creating and manipulating data through
  - Shopping for your favorite things with a limited amount of money and using Excel to create your budget
  - Planning a dinner party and creating your shopping/spending list
  - Budgeting a trip for a family of four

**Coding and Innovative Technologies**
Offered to both 7th and 8th graders
Prerequisite: Computer Solutions

What do we learn?
- **HTML/Coding**
  - Code.org
    - Create a website about yourself using HTML
  - Google CS
    - Game Design
    - Interactive Story Design
- **Google Earth**
  - Completing scavenger hunts to find things around the world with Google Earth
7th grade year long F&PA classes

Band:
Beginning Band
Intermediate Band
Percussion Ensemble

Chorus:
Intermediate (Mixed voices)
Advanced (Treble voices)

Theatre:
Theatre Arts Appreciation

Orchestra
Beginning Orchestra
Bravo Orchestra
Advanced Orchestra
(audition required)

TOGETHER,
WE CREATE!
7th grade fine and performing arts electives semester classes

**Art**
Art Foundations: 1st and 2nd semester
3D Art Exploration: 1st and 2nd semester
Computers in Art: 1st and 2nd semester

**Theatre Arts**
Theatre Arts Appreciation:
1st and 2nd semester
A Day At Hayfield

What your student can expect in 7th Grade
**Orange Day**

1st Period 8:00 - 9:27  
*Passing 9:27 - 9:32*

3rd Period 9:32 - 10:59  
*Passing 10:59 - 11:04*

5th Period 11:04 - 1:13  
*You will have lunch during this period  
*Passing 1:13 - 1:18*

7th Period 1:18 - 2:45

**White Day**

2nd Period 8:00 - 9:27  
*Passing 9:27 - 9:32*

4th Period 9:32 - 10:13  
*Passing 10:13 - 10:18  
SOAR (rotation) 10:18 -10:59  
*Passing 10:59 - 11:04*

6th Period 11:04 - 1:13  
*You will have lunch during this period  
*Passing 1:13 - 1:18*

8th Period 1:18 - 2:45
Sample Schedule

Orange Day

1st: Math 7 Honors
3rd: Band
5th: PE 7 (D Lunch)
7th: US History

White Day

2nd: Spanish 1 ptA
SOAR 4
SOAR Period 1
6th: Science 7 (A Lunch)
8th: English 7 HN
Team Model

Students in 7th grade are randomly grouped on interdisciplinary teams comprised of 3 of their 4 core subjects. These teachers meet on a weekly basis to discuss student performance, student behavior, and interventions for those students who are struggling. Administrators and counselors are often included in these meetings.
Keys to Academic Success

- Good attendance
- Be on time to class
- Time management
- Use your planner
- Do your homework
- Ask for/Use help
Elementary Tours

Thursday, January 9 – Hayfield ✓
Friday, January 10 – Island Creek ✓
Monday, January 13 – Lane ✓

Tuesday, January 22 – Rose Hill/Gunston *snow date

Wednesday, January 23 – Lorton Station *snow date
Online Registration @ Elementary Schools

Lane - February 11
Island Creek - February 12
Lorton Station - February 13
Gunston - February 19
Hayfield - February 21
Rose Hill - February 27
Rising 7th Academic Advising Timeline

January 7 - 11, 14th - Students will attend tour of Hayfield and receive transition information from current Hayfield students. Students will have a chance to tour the building and see what the electives they are considering look like.

January 2019 - Academic Advising will occur with counselors/teachers at the Elementary School.

February 2019 - Online Course selections - Student Services staff from Hayfield Middle will come to the elementary schools to assist with online course selection. Families will be provided with information regarding how they can access these selections at home. Changes can be made in the online module until March 31, 2020.

April 2019 - Course selection sheets mailed home

All changes to students’ requests for classes need to be made with Hayfield Middle School counselors no later than June 1, 2020.
Rising 7th Parent Events

February 6: *Parent Coffee 6:00 PM*—Hayfield MS Lecture Hall

March 21: *Parent Coffee 8:30 AM*—Hayfield MS Lecture Hall
Thank you for joining us!

Any questions???