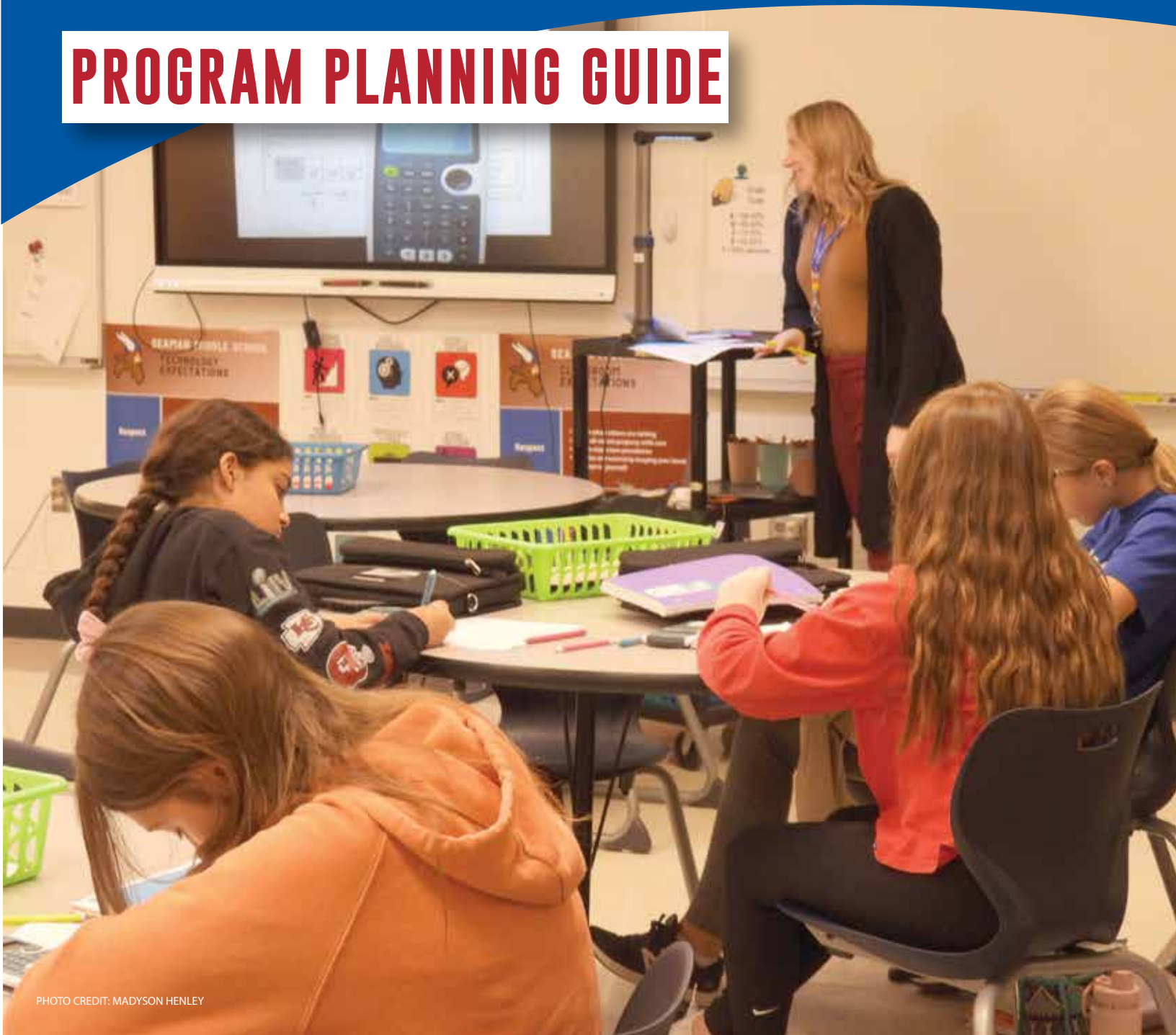


2024-2025 **SEAMAN** MIDDLE SCHOOL



PROGRAM PLANNING GUIDE



Hello SMS Families,

Welcome to the Seaman Middle School Program Planning Guide! This guide has been created to help you navigate the many opportunities and choices that our families have in 7th and 8th grade. In the pages that follow, you will discover information about the courses from core subjects like math and language arts to enriching electives. You can also look ahead to career pathways that lead into the high school curriculum.

It is our hope that Seaman Middle School courses will deepen students' understanding of various subjects and also explore their interests, talents, and passions. Our curriculum is engaging and dynamic, fostering an environment that encourages curiosity, critical thinking, and creativity. In addition to course offerings at Seaman Middle School, students will find numerous opportunities to develop leadership skills, build lasting friendships, and contribute to the vibrant school community through clubs, activities and electives.

We encourage you to use this guide to help guide family conversations around course selections. Whether you're a student eager to explore new subjects or a parent supporting your child's educational path, this guide is your resource towards building an enriching educational experience.

We look forward to helping students and families during the enrollment process!

Sincerely,

Kyle Johnson
Seaman Middle School Principal



Kyle Johnson
Principal



Chad Uhler
Assistant Principal
Athletic Director

School Hours & Bell Schedule

School Hours

Regular School Hours

7:50 am - 3:00 pm

Early Release Hours

7:50 am - 11:00 am

Bell Schedule

Viking Time: 7:50-8:16

1st Hour: 8:20-9:06

2nd Hour: 9:10-9:56

3rd Hour: 10:00-10:46

4th Hour: 10:50-11:36

5th Hour: 11:40-12:56

6th Hour: 1:00-1:46

7th Hour: 1:50-2:36

Advisory: 2:40-3:00

Lunch

1st Lunch: 11:41-12:06

2nd Lunch: 12:06-12:31

3rd Lunch: 12:31-12:56

Table of Contents

ENROLLMENT INFO AND WORKSHEET	2
COLLEGE AND CAREER PATHWAYS	4
7th GRADE REQUIRED COURSES	10
7th GRADE ELECTIVES	14
8th GRADE REQUIRED COURSES	18
8th GRADE ELECTIVES	21

ENROLLMENT INFO AND WORKSHEET

Incoming seventh graders will enroll using their laptops at their elementary school to enter their elective choices into PowerSchool. Elective courses will be entered into the PowerSchool website by each student currently enrolled in the seventh grade at Seaman Middle School. The courses are entered by clicking on the "Class Registration" icon and following the directions on the screen. Students will be informed at school of the time frame when course selection can be completed at the website. Computers will be available at school to complete pre-enrollment selections as needed.

7th Grade Year		
English	English 7/English 7 +	Two Semesters
Math	Math 7/Math 7+	Two Semesters
Science	Science 7	Two Semesters
Social Studies	Social Studies 7/Social Studies 7+	Two Semester
Exploring Applied Arts	PLTW Design and Modeling/Family and Consumer Science	One Semester/One Semester
1st Semester Elective	Write in your elective choice below	One Semester
1st Semester Elective	Write in your elective choice below	One Semester
2nd Semester Elective	Write in your elective choice below	One Semester
2nd Semester Elective	Write in your elective choice below	One Semester

7th Grade Elective Choices	1st Semester	2nd Semester
1st Choice		
2nd Choice		
Alternate		

8th Grade Year		
English	English 8/English 8 +	Two Semesters
Math	Math 8/Math 8 +	Two Semesters
Science	Science 8	Two Semesters
Social Studies	Social Studies 8/Social Studies 8+	One Semester
1st Semester Elective	Write in your elective choice below	One Semester
1st Semester Elective	Write in your elective choice below	One Semester
1st Semester Elective	Write in your elective choice below	One Semester
2nd Semester Elective	Write in your elective choice below	One Semester
2nd Semester Elective	Write in your elective choice below	One Semester
2nd Semester Elective	Write in your elective choice below	One Semester

8th Grade Elective Choices	1st Semester	2nd Semester
1st Choice		
2nd Choice		
3rd Choice		
Alternate		

COLLEGE AND CAREER PATHWAYS

Career Pathways mostly begin in high school but some areas can start as early as middle school. Students and families are encouraged to begin looking ahead and planning for career pathways as they choose their courses as early as middle school. Pathways provide students a sequential set of classes to explore careers of interest and develop skills in preparation for college and a career. Introductory courses allow students to explore a wide variety of careers within the field. Technical level courses focus on specific skills that are needed within the career area. Students who have gained the technical skills within the pathway are eligible to enroll in application level courses, which provide "real-world" experiences in the classroom with industry mentors or through professional workplace experience. Courses that are assigned to a pathway are designated with a **P**.

Benefits of College & Career Pathways

- Access to exclusive project-based learning experiences
- Exposure to high-demand, high-income industries
- Small learning communities of students centered on student's field of interest
- Career exploration so student can determine his/her career and educational plan beyond high school
- Freedom to explore multiple pathways
- College credit opportunities

AGRICULTURE, FOOD & NATURAL RESOURCES		
Agribusiness Systems	Animal Science	Plant Systems
Introductory		
<ul style="list-style-type: none"> • Introduction to Agricultural Sciences (8th grade) 	<ul style="list-style-type: none"> • Introduction to Agricultural Sciences (8th grade) 	<ul style="list-style-type: none"> • Introduction to Agricultural Sciences (8th grade)
Technical		
<ul style="list-style-type: none"> • Agriculture Business 	<ul style="list-style-type: none"> • Animal Science and Industry 	<ul style="list-style-type: none"> • Horticulture
Application		
<ul style="list-style-type: none"> • Agriculture Communications & Leadership • Applications in Agribusiness • CCR Internship - Ag, Food & Natural Resources 	<ul style="list-style-type: none"> • Advanced Animal Science - Livestock Management • Animal Health/Veterinary Tech • CCR Internship - Ag, Food & Natural Resources 	<ul style="list-style-type: none"> • Agriculture Business • Agriculture Communications & Leadership • Applications in Horticulture • Crop and Range Management • Floriculture & Greenhouse Management • CCR Internship - Ag, Food & Natural Resources

ARCHITECTURE & CONSTRUCTION	
Construction	Design
Introductory	
<ul style="list-style-type: none"> • Introduction to Industrial Technology (8th Grade) • Drafting 	<ul style="list-style-type: none"> • Introduction to Industrial Technology (8th Grade) • Drafting
Technical	
<ul style="list-style-type: none"> • Carpentry I • Woodworking Principles 	<ul style="list-style-type: none"> • Drafting/CAD • Home Interiors
Application	
<ul style="list-style-type: none"> • Furniture and Cabinetry Fabrication • Advanced Materials Technology • CCR Internship - Construction & Design - Construction 	<ul style="list-style-type: none"> • Architecture/Construction Science • CCR Internship - Construction & Design - Design

ARTS, A/V & COMMUNICATIONS	
Digital Media	Graphic Design
Introductory	
<ul style="list-style-type: none"> • Computer Applications I (8th grade) • Computer Applications II • Introduction to Business (8th grade) 	<ul style="list-style-type: none"> • Computer Applications I (8th grade) • Computer Applications II • Drawing I
Technical	
<ul style="list-style-type: none"> • 21st Century Journalism • Beginning Digital Photo: Photo Imaging • Broadcast Journalism I: Audio/Video Production Fundamentals • Digital Media Technology • Graphic Design • Media & Public Relations • Marketing: Sports & Entertainment • Graphic Design Fundamentals 	<ul style="list-style-type: none"> • Beginning Digital Photo: Photo Imaging • Drawing II • Graphic Design • Graphic Design Fundamentals
Application	
<ul style="list-style-type: none"> • Broadcast Journalism II: Video Production • Clipper: Digital Media Design & Production • Yearbook: Digital Media Design & Production 	<ul style="list-style-type: none"> • CCR Internship - Media Technology

BUSINESS MANAGEMENT & ADMINISTRATION
Management & Entrepreneurship
Introductory
<ul style="list-style-type: none"> • Introduction to Business (8th grade)
Technical
<ul style="list-style-type: none"> • 21st Century Technology Communications • Accounting I • Business Economics • Business Law I • Business Management • Drafting/CAD • Carpentry • Culinary Essentials • Entrepreneurship I • Foundations to Early Childhood Development • PLTW Engineering Design and Development • Principles of Marketing • Web Page Design • Welding Processes I
Application
<ul style="list-style-type: none"> • CCR Internship - Applied Business Development

EDUCATION & TRAINING	
Teaching/Training	
Introductory	
<ul style="list-style-type: none"> • Introduction to Family & Consumer Sciences (8th grade) 	
Technical	
<ul style="list-style-type: none"> • Teaching Observation • Peer Mentoring • Human Development • Family Studies 	
Application	
<ul style="list-style-type: none"> • Teaching Internship 	

ENGINEERING	
Engineering & Applied Mathematics	
Introductory	
<ul style="list-style-type: none"> • Chemistry • PLTW Introduction to Engineering Design 	
Technical	
<ul style="list-style-type: none"> • Drafting/CAD • Engineering Robotics • PLTW Principles of Engineering 	
Application	
<ul style="list-style-type: none"> • PLTW Engineering Design and Development • CCR Internship - Engineering & Applied Mathematics 	

FINANCE	
Business Finance	
Introductory	
<ul style="list-style-type: none"> • Introduction to Business (8th grade) 	
Technical	
<ul style="list-style-type: none"> • 21st Century Technology Communications • Accounting I • Business Economics • Business Law I • Entrepreneurship I 	
Application	
<ul style="list-style-type: none"> • Investing • Money & Banking • Computerized Accounting II • Computerized Accounting III • CCR Internship - Finance 	

GOVERNMENT & PUBLIC ADMINISTRATION	
Government & Public Administration	
Introductory	
<ul style="list-style-type: none"> • AP American Government • AP U.S. History • American Government • U.S. History • Introduction to Public & Government Administration 	
Technical	
<ul style="list-style-type: none"> • Accounting • Business Economics • Business Law I • Business Management • Government & Public Administration Fundamentals • Media & Public Relations • Practical Law 	
Application	
<ul style="list-style-type: none"> • CCR Internship - Public Government • CCR Internship - Pre-Law 	

HEALTH SCIENCE		
BioChemistry	BioMedical	Health Science
Introductory		
<ul style="list-style-type: none"> • Computer Applications I (8th grade) • Computer Applications II • Chemistry 	<ul style="list-style-type: none"> • Biology • Chemistry • Computer Applications I (8th grade) • Computer Applications II 	<ul style="list-style-type: none"> • Biology • Chemistry • Intro to Health Science
Technical		
<ul style="list-style-type: none"> • Anatomy and Physiology 	<ul style="list-style-type: none"> • Anatomy and Physiology • Engineering Robotics • PLTW Principles of Biomedical Science • PLTW Biomedical Human Body Systems • PLTW Medical Interventions 	<ul style="list-style-type: none"> • Anatomy and Physiology • Nutrition & Fitness • Sports Medicine I
Application		
<ul style="list-style-type: none"> • CCR Internship - Engineering • Bioengineering 	<ul style="list-style-type: none"> • PLTW Biomedical Innovation • Bioengineering • CCR Internship - Engineering 	<ul style="list-style-type: none"> • Sports Medicine II • WUIT - Nursing Assistant • WUIT - Phlebotomy • WUIT - Health Care Tech • CCR Internship - Health Science

HOSPITALITY & TOURISM	
Restaurant and Event Management	
Introductory	
<ul style="list-style-type: none"> • Introduction to Family & Consumer Science (8th Grade) • Introduction to Business (8th grade) 	
Technical	
<ul style="list-style-type: none"> • Culinary Arts (required) • Culinary Essentials • Entrepreneurship I • Nutrition & Fitness • Principles of Marketing 	
Application	
<ul style="list-style-type: none"> • Career and Community Connections • CCR Internship - Restaurant & Event Management • Culinary Applications 	

HUMAN SERVICES	
Early Childhood Development & Services	Family, Community and Consumer Services
Introductory	
<ul style="list-style-type: none"> • Introduction to Family & Consumer Science (8th Grade) 	<ul style="list-style-type: none"> • Family & Consumer Science (8th grade)
Technical	
<ul style="list-style-type: none"> • Foundation to Early Childhood Development • Human Development • Leadership • Family Studies 	<ul style="list-style-type: none"> • Culinary Essentials • Human Development • Leadership • Nutrition & Fitness • Family Studies
Application	
<ul style="list-style-type: none"> • CCR Internship - Career Connections • CCR Internship - Early Childhood Applications 	<ul style="list-style-type: none"> • CCR Internship: Career Connections • CCR Internship: Community Connections

INFORMATION TECHNOLOGY	
Programming and Software Development	Web and Digital Communications
Introductory	
<ul style="list-style-type: none"> • Computer Applications I (8th grade) • Computer Applications II 	<ul style="list-style-type: none"> • Computer Applications I (8th grade) • Computer Applications II
Technical	
<ul style="list-style-type: none"> • AP PLTW Computer Science Principles • Computer Programming Other Language • PLTW Computer Science Principles • Web Page Design 	<ul style="list-style-type: none"> • Animation • Graphic Design • Web Page Design
Application	
<ul style="list-style-type: none"> • CCR Internship - Programming • PLTW Cybersecurity 	<ul style="list-style-type: none"> • CCR Internship - Web

LAW, PUBLIC SAFETY, & SECURITY	
Corrections, Security, Law, and Law Enforcement Services	
Introductory	
<ul style="list-style-type: none"> • Introduction to Law, Public Safety & Security 	
Technical	
<ul style="list-style-type: none"> • 21st Century Technology Communications • Accounting • Business Economics • Business Law • Business Management • Law Enforcement I • Practical Law • Public Safety Physical Education 	
Application	
<ul style="list-style-type: none"> • Law Enforcement II 	

MANUFACTURING	
Manufacturing	
Introductory	
<ul style="list-style-type: none"> • Introduction to Industrial Technology (8th Grade) • Introduction to Welding 	
Technical	
<ul style="list-style-type: none"> • Welding Processes I • Drafting/CAD • Engineering Robotics 	
Application	
<ul style="list-style-type: none"> • Advanced Materials Technology • Welding Processes II • Work Experience in Manufacturing - Comprehensive 	

7th GRADE REQUIRED COURSES

FAMILY & CONSUMER SCIENCE

One Semester

Fees: \$10

The 7th grade family and consumer science course is a required class that is completed in one semester. Students will learn the components of personal development, the importance of healthy relationships, how to communicate effectively, and analyze the impact of personal career and financial decisions.

Units Covered:

- A. Introduction
- B. Personal Development
- C. Real Game-Exploration
- D. Human Sexuality
- E. Life Skills
- F. Junior Achievement
- G. Miscellaneous Games/Activities
- H. Introduction to Foods

LANGUAGE ARTS 7

Two Semesters

The seventh grade English Language Arts curriculum addresses all aspects of language including literature, writing, and oral communications, which are taught concurrently throughout all units. This course is aligned and tested according to the Kansas College and Career Readiness Standards for Reading and Writing.

Units Covered:

- A. Reading-Informational Text: Students will decipher and clarify the meaning of various informational texts using a range of strategies. Students will focus on analyzing text structures to determine the main ideas and key details.
- B. Reading-Literature: Students will read and comprehend a variety of fictional genres, including short stories, poetry, and novels. Focuses within this unit will include vocabulary acquisition, the use of figurative language and the analysis of underlying themes within each passage.
- C. Speaking and Listening: Students will collaborate with their grade level peers for a variety of speaking and listening activities. The focus will be on analyzing main ideas from a diverse set of media and formats.

- D. Writing: Students will engage in writing activities including argumentative, informative, and narrative pieces. Students will also demonstrate an understanding of the conventions of the English language.

LANGUAGE ARTS 7+

Two Semesters

The seventh grade English Language Arts curriculum addresses all aspects of language including literature, writing, and oral communications, which are taught concurrently throughout all units. This course is aligned and tested according to the Kansas College and Career Readiness Standards for Reading and Writing.

Units Covered:

- A. Reading-Informational Text: Students will decipher and clarify the meaning of various informational texts using a range of strategies. Students will focus on analyzing text structures to determine the main ideas and key details.
- B. Reading-Literature: Students will read and comprehend a variety of fictional genres, including short stories, poetry, and novels. Focuses within this unit will include vocabulary acquisition, the use of figurative language and the analysis of underlying themes within each passage.
- C. Speaking and Listening: Students will collaborate with their grade level peers for a variety of speaking and listening activities. The focus will be on analyzing main ideas from a diverse set of media and formats.
- D. Writing: Students will engage in writing activities including argumentative, informative, and narrative pieces. Students will also demonstrate an understanding of the conventions of the English language.

Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

MATH 7

Two Semesters

In Grade 7, instructional time will focus on the eight mathematical practices: (1) solve problems and make sense of them all while persevering to solve problems; (2) reason abstractly and quantitatively; (3) construct arguments while positively critiquing others' reasoning and justify their answers; (4) use manipulative and activities to model with mathematics; (5) learn to use mathematics tools strategically to verify their conjectures and to examine mathematical situations; (6) attend to precision throughout various mathematical situations and challenges; (7) look for and make use of structure; and (8) look for patterns and develop formulas.

Units Covered:

- A. Ratios and Proportional Relationships: Analyze proportional relationships and develop strategies to solve real world and mathematical problems.
- B. The Number System: Apply and develop an understanding of rational numbers and operations with rational numbers and their properties.
- C. Expressions and Equations: Use properties of operations to create equivalent expressions. Solve real life mathematical problems using numerical and algebraic expressions and equations.
- D. Geometry: Draw, construct, and describe geometrical figures and describe the relationships between geometrical figures. Solve real life and mathematical problems involving angles, measurement, perimeter, area, surface area, and volume of two and three-dimensional objects of polygons, cubes, cylinders, and prisms.
- E. Statistics and Probability: Understand experimental and theoretical probabilities. Use random sampling to draw inferences about a population. Draw informal comparative inferences about two populations. Explore chance processes and develop, use, and evaluate probability models.

MATH 7+

Two Semesters

The 7th Grade Mathematics Honors/7th Grade Mathematics Plus is an advanced course for students entering 7th grade who wish to increase their understanding of 7th grade content (see 7 Mathematics

description below) through challenging real-world applications, project based learning, and student discussions. This course will elaborate on skills in the areas of Pre-Algebra and Geometry as well as teach twenty percent of the 8th grade standards to give students a deeper understanding and application of these concepts beyond that of the 7 Mathematics course.

In Grade 7, instructional time will focus on the eight mathematical practices: (1) solve problems and make sense of them all while persevering to solve problems; (2) reason abstractly and quantitatively; (3) construct arguments while positively critiquing others' reasoning and justify their answers; (4) use manipulative and activities to model with mathematics; (5) learn to use mathematics tools strategically to verify their conjectures and to examine mathematical situations; (6) attend to precision throughout various mathematical situations and challenges; (7) look for and make use of structure; and (8) look for patterns and develop formulas.

Units Covered:

- A. Ratios and Proportional Relationships: Analyze proportional relationships and develop strategies to solve real world and mathematical problems.
- B. The Number System: Apply and develop an understanding of rational numbers and operations with rational numbers and their properties.
- C. Expressions and Equations: Use properties of operations to create equivalent expressions. Solve real life mathematical problems using numerical and algebraic expressions and equations.
- D. Geometry: Draw, construct, and describe geometrical figures and describe the relationships between geometrical figures. Solve real life and mathematical problems involving angles, measurement, perimeter, area, surface area, and volume of two and three-dimensional objects of polygons, cubes, cylinders, and prisms.
- E. Statistics and Probability: Understand experimental and theoretical probabilities. Use random sampling to draw inferences about a population. Draw informal comparative inferences about two populations. Explore chance processes and develop, use, and evaluate probability models.

Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

PLTW DESIGN AND MODELING

One Semester

Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. Using Autodesk design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

SCIENCE 7

Two Semesters

In 7th grade science there are three distinct and equally important dimensions to learning science. These dimensions are combined to form each standard—or performance expectation—and each dimension works with the other two to help students build a cohesive understanding of science over time. Dimension one is Crosscutting Concepts which helps students explore connections across the four domains of science and develop a coherent and scientifically-based view of the world around them. Dimension two is Science and Engineering Practices and describes what scientists do to investigate the natural world and what engineers do to design and build systems. Students engage in practices to build, deepen, and apply their knowledge of science concepts. The third dimension is Disciplinary Core Ideas and is key ideas in science that build on each other as students' progress through grade levels.

Units Covered:

- A. Physical Science: The four physical science topics include: 1) Matter and Its Interactions, 2) Forces and Interactions, 3) Energy, and 4) Waves and Their Applications in Technologies for Information Transfer
- B. Life Science: The five life science topics include: 1) Structure, Function, and Informational Processing, 2) Growth, Development, and Reproduction of Organisms, 3) Matter and Energy in Organisms in Ecosystems, 4) Interdependent Relationships in Ecosystems, and 5) Natural Selection and Adaptations.
- C. Earth and Space Science: The three earth and space science topics include: 1) Earth's Place in

the Universe, 2) Earth's Systems, and 3) Earth and Human Activity

- D. Engineering Design: Students will be able to define problems, develop possible solutions, and analyze and improve design.

SOCIAL STUDIES 7

Two Semesters

This course should familiarize students with their world using the five themes of geography. Students will learn about all regions of the world while developing their skills and knowledge about location, place, human/environmental interaction, movement, and regions. Emphasis is placed on the relationships between physical features, natural resources, cultures, and economic and political systems. Maps, graphs, chart productions, and their interpretations are stressed.

In Kansas History, emphasis is placed on developing a relationship between the student and the state. The course will cover major events, individuals, groups, innovations, and movements during the state's history. The development of Kansas' government and the responsibilities of citizenship are stressed. The students will utilize maps, charts, primary sources, artifacts, and historical readings.

Units Covered in Kansas History:

- A. Early Native Americans
- B. European explorers
- C. Louisiana Purchase
- D. Westward expansion
- E. Territorial period
- F. Civil War
- G. Expansion
- H. Government and politics
- I. Kansas in the twentieth century
- J. Geography
- K. Economics

SOCIAL STUDIES 7+

Two Semesters

This course should familiarize students with their world using the five themes of geography. Students will learn about all regions of the world while developing their skills and knowledge about location, place, human/environmental interaction, movement, and regions. Emphasis is placed on the relationships between physical features, natural resources, cultures,

and economic and political systems. Maps, graphs, chart productions, and their interpretations are stressed.

As this content is covered, students will focus on the standards of:

- A. Choices have consequences
- B. Individuals have rights and responsibilities
- C. Societies are shaped by beliefs, ideas, and diversity
- D. Societies experience continuity and change over time
- E. Relationships among people, places, ideas, and environments are dynamic.

Units Covered in World Geography:

- A. Physical and Political Geography
- B. Human Geography
- C. The U.S. and Canada
- D. Central America, Caribbean Islands
- E. South America
- F. Western Europe
- G. Eastern Europe
- H. Middle East and North Africa
- I. Africa: South of the Sahara
- J. South Asia
- K. East Asia
- L. Australia, Antarctica, Oceania

In Kansas History, emphasis is placed on developing a relationship between the student and the state. The course will cover major events, individuals, groups, innovations, and movements during the state's history. The development of Kansas' government and the responsibilities of citizenship are stressed. The students will utilize maps, charts, primary sources, artifacts, and historical readings.

Units Covered in Kansas History:

- A. Early Native Americans
- B. European explorers
- C. Louisiana Purchase
- D. Westward expansion
- E. Territorial period
- F. Civil War
- G. Expansion
- H. Government and politics
- I. Kansas in the twentieth century
- J. Geography
- K. Economics

Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

7th GRADE ELECTIVES

ART I

One Semester

Fees: \$8.50 per semester

Prerequisite: none

This course is for students that want to learn about basic introductory processes, concepts, theories and skills of art. Students will learn the elements of art to be used with various media and techniques. Students will be taught to develop a critical eye and an appreciation and understanding of their artwork, as well as the art of their peers and from important artists of the past and present. Realistic, abstract, and nonrepresentational art will be undertaken in various two-dimensional and three-dimensional forms. Student work will be photographed, edited, and artist statements will be written in order for students to learn how to promote themselves as artists.

AVID ELECTIVE

Two Semesters

AVID students will learn the fundamentals of middle school writing, reading, questioning, time management, organization, note taking, collaborative study skills, and AVID tutorials. The goal is to introduce students to the AVID culture and prepare them for the rigor of advanced coursework.

BAND

Two Semesters

7th Grade Band – Woodwinds

Band members that play the Flute, Oboe, Clarinet, Bass Clarinet, French Horn, and Saxophone will rehearse together in this class. The 7th grade band curriculum is for students who already have an understanding of basic music reading, instrument assembly and maintenance, correct playing position and good sound production. Instruction includes continued focus on the refinement of tone quality, performance technique, aural skills and music literacy. Select students will have the opportunity to transition to instruments that may not have been offered in previous band experiences.

This class meets daily for both semesters and performs 5 concerts throughout the school year. 7th grade woodwind players will combine with brass and percussionists to practice as a full ensemble before each concert. Opportunities to perform in regional honor

bands as well as the SMS Stage Band and Jazz Ensemble will be offered as well.

7th Grade Band – Brass

Band members that play the Trumpet, Trombone, Euphonium/Baritone, and Tuba will rehearse together in this class. The 7th grade band curriculum is for students who already have an understanding of basic music reading, instrument assembly and maintenance, correct playing position and good sound production. Instruction includes continued focus on the refinement of tone quality, performance technique, aural skills and music literacy. Select students will have the opportunity to transition to instruments that may not have been offered in previous band experiences.

This class meets daily for both semesters and performs 5 concerts throughout the school year. 7th grade brass players will combine with woodwinds and percussionists to practice as a full ensemble before each concert. Opportunities to perform in regional honor bands as well as the SMS Stage Band and Jazz Ensemble will be offered as well.

7th Grade Band – Percussion

Students will learn total-percussion techniques on keyboards, battery, and ethnic instruments. They will perform concerts with the 7th grade woodwinds and brass players, as well as within a percussion ensemble setting. Students must have passed the 6th grade percussion audition and participated in 6th grade band.

CHORUS

One Semester or Two Semesters

Chorus members are expected to master basic elements of sight singing and musicianship. The group is less oriented toward individualized instruction and development. Ensemble singing, in two to four parts with an emphasis on vocal technique, articulation, and pure vowel across a variety of styles, will provide each student a quality performing experience and a solid basis for future growth and development. Four concerts per year are required, and the students must purchase a uniform.

CREATIVE & DRAMATIC ARTS I

One Semester or Two Semesters

This introductory course exposes students to various forms of communication and theatre, while improving their skills in both areas. Participation in speaking,

acting, and theatre experiences form the basis of the course. Students will learn the basics of storytelling, public speaking, demonstrations, fairy tales, monologues, theatre, characterization, auditioning, improvisation and much more. Students will gain confidence in their acting ability through participation in short productions and improvisational activities. Upon completion of the course, students should have a better understanding of effective communication strategies and how modern theatre works.

FUTURE CITIES

Two Semesters

Fees: \$7.50

Students will be led through a project-based learning experience, helping them tackle a relevant citywide sustainability issue as they imagine, research, brainstorm, design, and build cities of the future. Along the way, they'll discover engineering, develop a meaningful relationship with an engineering mentor, become more aware citizens, and build their 21st century skills.

INTRODUCTION TO CHINESE

One Semester

Chinese is designed to primarily expose the students to the basics of Chinese language and Chinese culture. Students will be expected to demonstrate proficiency in listening, speaking, reading, writing, comprehending common words and expressions in Chinese and make short conversations in Chinese and also experience the culture differences between two different nations. Students are motivated to be more interactive and build more interest and confidence learning this language through various activities.

Units Covered:

- A. Greetings & Expressions of courtesy
- B. Expressions of compliment & mood
- C. Nationality & Self-introduction
- D. Numbers, Ages & Counting
- E. Chinese Pinyin (pronunciation) & Characters Writing
- F. Family
- G. Days & Months
- H. Time & Appointments
- I. Parts of Body
- J. Weather & Seasons
- K. Animals & Zodiac
- L. Fruits & Food

M. Sports

N. Chinese Festivals & Holidays

INTRODUCTION TO SPANISH

One Semester

Students will be exposed to basic Spanish grammar and vocabulary through both spoken and written language. Learners will reproduce teacher-given sentence patterns for use in real-life scenarios. Songs, cultural references, and other activities will support provided topics. By the end of the semester, students should be able to ask and answer basic Spanish questions, both verbally and written, which would be encountered daily in societal situations.

LITERATURE

One Semester or Two Semesters

Literature is an elective where students will learn about the elements and components of fiction (classic/modern), nonfiction, fables/tales, short stories, and poetry. Students will learn vocabulary, plot, setting, character, conflict, and resolution. Inferential comprehension will be a focus on the analysis of novels studied. Authors, and sub genres are used to guide the independent reading component of the class. Students must enjoy and have a love of reading in general as we explore all genres in literature.

MATH LAB

One Semester or Two Semesters

Math lab provides support in computation and problem solving based on the specific need of each student. Students are placed in math lab based on Acadience. Math lab can be a semester or year long course.

NATIONAL HISTORY DAY AND UNDERSTANDING SACRIFICE

One or Two Semesters

In this course students will use the National History Day model to explore a major theme in history and master historical researching skills. Students will learn to examine a wide variety of historical sources, both primary and secondary, and evaluate and recognize bias in sources. Critical and creative thinking skills, cooperative learning, problem solving, and effective communication will be emphasized as students use their research to create a historical paper, exhibit board, documentary, performance, or website. After the

National History Day competition in February, students will then take part in an in-depth study of World War I and World War II. During this unit, students will conduct research about a World War II service member as part of National History Day's Silent Hero Project.

ORCHESTRA

Two Semesters

Orchestra is a musical experience for students who already play violin, viola, cello, or string bass and continues the development of their musical skills and knowledge. Daily class rehearsals involve learning about instrument mechanics, sound production, tuning, scales in various keys, playing technique, and numerous concepts including ensemble techniques in the basic musical elements of rhythm, harmony, melody, and style. Preparation for performances in assemblies and school concerts fosters group skills in listening, respect, awareness, cooperation, diligence, and responsibility.

Units Covered:

- A. Notation, rhythm groupings; key signature
- B. Balance, blend, and proper tone quality
- C. Bowing techniques and fingering techniques from the Baroque to the present
- D. Pitch and ear training

ORGANISMS AND ECOSYSTEMS

One Semester

Fee: \$7.50

Aquaculture courses impart the knowledge and skills needed for producing fish, plants, and other species living in an aquatic environment, and course topics typically include the selection, propagation, harvesting, and marketing of those species. Instruction may also address aquatic and marine biology, ecosystems, water quality and management, and business practices. Discussions will occur regarding animal behaviors and adaptations for different environments.

PHYSICAL EDUCATION

One Semester or Two Semesters

Fee: t-shirt fee

Physical education develops physically literate students. Emphasis is on competency in motor skills and movement patterns needed to perform a variety of physical activities. They will apply knowledge of concepts, principles, and strategies related to movement and performance. Students will work toward achieving

and maintaining a health-enhancing level of physical activity and fitness. There is also an emphasis on the development of responsible personal and social behavior that respects self and others. Students will recognize the value of physical activity for health, enjoyment, challenge, self-expression and social interaction. The long-range goal for physical education class is for students to have the ability, confidence, and desire to be physically active as an ongoing part of a healthy lifestyle.

Units Covered:

- A. Team and Individual Activities and Sports
- B. Lifetime/Recreational Games
- C. Physical Fitness Activities/Fitnessgram
- D. Strength and Conditioning

PLTW AUTOMATION AND ROBOTICS

One Semester

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

READING LAB

One Semester or Two Semesters

Reading lab provides support in accuracy, fluency, and/or comprehension based on the specific need of each student. Students are placed in reading lab based on Acadience. Reading lab can be a semester or year long course.

SPANISH I

Two Semesters

An emphasis will be placed on grammar, vocabulary and oral Spanish. Students will listen to and repeat sentence patterns given by the teacher and practice using Spanish in written, reading, and listening exercises. Students will listen to typical Spanish conversations and practice drills centered around real life situations. Songs, cultural references, videos, and other activities will supplement the text and workbook. By the end of the year, students should be able to carry on short conversations and to write simple sentences in Spanish commonly encountered in societal situations.

WILDLIFE MANAGEMENT

One Semester

Fee: \$7.50

Wildlife and Recreation Management courses provide students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. These courses emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations. Students may also learn how to manage wildlife and lands for recreational purposes.

8th GRADE REQUIRED COURSES

LANGUAGE ARTS 8

Two Semesters

The eighth grade language arts classes develop the students' skills in reading, writing, grammar, and communication through the study of literature in a variety of short stories, novels, informational texts, and drama. Writing is learned within the context of literature, and the students are exposed to a variety of writing experiences.

Standards learned concurrently throughout the year:
Read, analyze, and comprehend high quality informational text for Grade 8:

- A. Key ideas and details
- B. Craft and structure
- C. Integration of knowledge and ideas
- D. Language and its conventions

Read, analyze, and comprehend high quality literature for Grade 8:

- A. Key ideas and details
- B. Craft and structure
- C. Integration of knowledge and ideas
- D. Language and its conventions

Write routinely for a range of discipline-specific tasks, purposes, and audiences:

- A. Text types and purposes
- B. Production and distribution of writing
- C. Research to build and present knowledge
- D. Language in writing

Communicate effectively in collaborative discussions including:

- A. Comprehension and collaboration
- B. Presentation of knowledge
- C. Language in speaking and listening

LANGUAGE ARTS 8+

Two Semesters

The eighth grade language arts classes develop the students' skills in reading, writing, grammar, and communication through the study of literature in a variety of short stories, novels, informational texts, and drama. Writing is learned within the context of literature, and the students are exposed to a variety of writing experiences.

Standards learned concurrently throughout the year:
Read, analyze, and comprehend high quality informational text for Grade 8:

- A. Key ideas and details
- B. Craft and structure
- C. Integration of knowledge and ideas
- D. Language and its conventions

Read, analyze, and comprehend high quality literature for Grade 8:

- A. Key ideas and details
- B. Craft and structure
- C. Integration of knowledge and ideas
- D. Language and its conventions

Write routinely for a range of discipline-specific tasks, purposes, and audiences:

- A. Text types and purposes
- B. Production and distribution of writing
- C. Research to build and present knowledge
- D. Language in writing

Communicate effectively in collaborative discussions including:

- A. Comprehension and collaboration
- B. Presentation of knowledge
- C. Language in speaking and listening

Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

MATH 8

Two Semesters

In Grade 8, instructional time will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in two variable data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Concepts that are the basis of our curriculum:

- A. The Number System
- B. Expression and Equations

- C. Functions of Geometry
- D. Statistics and Probability

MATH 8+

Two Semesters

The 8th Grade Mathematics Plus/8th Grade Mathematics Honors is an advanced course for students entering 8th grade who wish to increase their understanding of 8th grade content (see 8 Mathematics description below) through challenging real-world applications, project based learning, and student discussions. This course will elaborate on skills in the areas of Algebra and Geometry as well as add an in depth unit on Statistics to give students a deeper understanding and application of these concepts beyond that of the 8 Mathematics course. Students will be expected to apply Algebraic thinking and solving skills to Geometric concepts.

In Grade 8, instructional time will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in two variable data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Concepts that are the basis of our curriculum:

- A. The Number System
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- C. Functions of Geometry
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Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

SCIENCE 8

Two Semesters

In 8th grade, students will spend the year learning the fundamentals of physics, chemistry, Earth and Space sciences, and life sciences. Throughout the year the content will be integrated with the engineering practices, experimental design, and “crosscutting concepts”

included in the Next Generation Science Standards. The content and outline of 8th grade science is as follows:

- A. Nine weeks of physics - topics include energy, forces, friction, and Newton’s 3 Laws of Motion.
- B. Nine weeks of chemistry - topics include atoms, subatomic particles, chemical energy, photosynthesis, cellular respiration, and the carbon cycle.
- C. Nine weeks of Earth and Space Sciences - topics include formation of the Solar System, formation of the Earth, the structure and layering of the Earth, plate tectonics, earthquakes, and volcanoes.
- D. Nine weeks of Life Sciences - topics include genetics, natural selection, and human sexuality. An “opt-out” letter will be sent in the spring if parents or guardians do not want their student participating in the sexual-education portion of the course.

SOCIAL STUDIES 8

Two Semesters

8th grade students develop historical thinking skills as they explore American History. Beginning with the Revolution, Constitution, and the early republic, continuing with westward expansion and sectionalism, and culminating with the Civil War and Reconstruction, students will examine primary and secondary sources as they seek answers to compelling questions.

Concepts that are the basis of our curriculum:

- A. Choices have consequences.
- B. Individuals have rights and responsibilities.
- C. Societies are shaped by beliefs, ideas, and diversity.
- D. Societies experience continuity and change over time.
- E. Relationships between people, places, ideas, and environments are dynamic.

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Students enrolled in this course will be preparing for future enrollment in High School Honors Courses, but it is not a prerequisite for High School Honors.

Selecting this course as a preferred class does not guarantee placement.

8th GRADE ELECTIVES

Art II

One Semester or Two Semesters

Fee: \$8.50 per semester

Prerequisite: Art I

This course is for students that want to build on the elements of art they learned in 7th grade and understand and apply the Principles of Design. Art is designed as an exploratory course where basic introductory processes, concepts, theories and skills will be initiated. Students will use various media and techniques. Realistic representation, abstractions and non-representational art will be undertaken in various manifestations of two and three-dimensional forms. The transfer of personal ideas into visual expressions will be underscored. Students will understand art influence in everyday life. Student work will be photographed, edited, and artist statements will be written in order for students to learn how to promote themselves as artists.

AVID ELECTIVE

Two Semesters

AVID students will learn the fundamentals of middle school writing, reading, questioning, time management, organization, note taking, collaborative study skills, and AVID tutorials. The goal is to introduce students to the AVID culture and prepare them for the rigor of advanced coursework.

BAND

Two Semesters

8th Grade Band – Woodwinds

Students that played the Flute, Oboe, Clarinet, Bass Clarinet, French Horn, and Saxophone in 7th grade will continue their training in the 8th grade Woodwinds class. Band members will work on instrument-specific techniques including embouchure, tone quality, intonation, articulation, rhythmic accuracy, technical facility, and basic music theory using level 2.5-4 wind literature. In addition to the concert band season, 8th grade band members will play at SMS pep rallies, march in the Seaman homecoming parade, participate in a regional concert band festival, and will perform with the SHS Viking Marching Band at a home football game in Seaman Stadium. 8th grade woodwind players will combine with brass and percussionists to practice as a full ensemble before each of our 5 concerts. Opportunities to perform in regional honor bands well as

the SMS Jazz Ensemble and Stage Band will be offered as well.

8th Grade Band – Brass

Students that played the Trumpet, Trombone, Euphonium/Baritone, and Tuba in 7th grade will continue their training in the 8th grade Brass class. Band members will work on instrument-specific techniques including embouchure, tone quality, intonation, articulation, rhythmic accuracy, technical facility, and basic music theory using level 2.5-4 wind literature. In addition to the concert band season, 8th grade band members will play at SMS pep rallies, march in the Seaman homecoming parade, participate in a regional concert band festival, and will perform with the SHS Viking Marching Band at a home football game in Seaman Stadium. 8th grade woodwind players will combine with woodwind and percussionists to practice as a full ensemble before each of our 5 concerts. Opportunities to perform in regional honor bands well as the SMS Jazz Ensemble and Stage Band will be offered as well.

8th Grade Band – Percussion

Students will learn advanced percussion techniques through marching percussion, keyboards, battery, and ethnic instruments. They will perform concerts with the 8th grade woodwinds and brass as well as within a percussion ensemble setting. 8th grade percussionists must have participated in 7th grade percussion class.

CHORUS

One Semester or Two Semesters

Chorus members are expected to master basic elements of sight singing and musicianship. The group is less oriented toward individualized instruction and development. Ensemble singing, in two to four parts with an emphasis on vocal technique, articulation, and pure vowel across a variety of styles, will provide each student a quality performing experience and a solid basis for future growth and development. Four concerts per year are required, and the students must purchase a uniform.

COMPUTER APPLICATIONS I

One Semester

Students will learn to use software applications that consist of: word processing, spreadsheets and presentation software. Students will create documents that will not only benefit them in class, but will also be

applicable to other classes throughout high school. The main areas of word processing will be on Microsoft Word, Apple Pages and Google Docs. The next unit in the course will focus on Microsoft Excel, Apple Numbers, and Google Sheets. Students will also be introduced to project-based learning and will choose a computer application project to complete.

CREATIVE & DRAMATIC ARTS

One Semester or Two Semesters

Creative and Dramatic Arts is a hands-on course designed to expose students to various forms of communication and theatre, while improving their skills in both areas. Participation in speaking, acting, and theatre experiences form the basis of the course. Students will learn the basics of storytelling, public speaking, demonstrations, fairy tales, monologues, theatre, characterization, auditioning, improvisation and much more. Students will gain confidence in their acting ability through participation in short productions and improvisational activities. Upon completion of the course, students should have a better understanding of effective communication strategies and how modern theatre works.

CREATIVE AND DRAMATIC ARTS II

One or Two Semesters

This course builds on the skills learned in Creative and Dramatic Arts I as students continue to improve on their public speaking and acting skills. Students will expand theatre related skills through the development of playwriting techniques, script analysis, character development, and improvisation. Students will be exposed to elements of technical theatre such as production and costume design, staging, and light and sound work.

FAMILY & CONSUMER SCIENCE IN ACTION

Two semesters

Fee: \$10

FACS in Action is an application course. It will provide students the opportunity to apply and demonstrate various FACS skills in everyday life. Opportunities to demonstrate FACS skills include: SMS Viking Store Management, community service, modeling healthy social interactions, applied menu planning principles, produce and/or repair textiles, and interpersonal communication that encourages and respects the ideas and perspectives of all group members.

Overall, students will use reasoning processes (individually and collaboratively) to take responsible action in their families, school, and community.

FUTURE CITIES

Two Semesters

Fees: \$7.50

Students will be led through a project-based learning experience, helping them tackle a relevant citywide sustainability issue as they imagine, research, brainstorm, design, and build cities of the future. Along the way, they'll discover engineering, develop a meaningful relationship with an engineering mentor, become more aware citizens, and build their 21st century skills.

FRENCH I

Two Semesters

French is designed to primarily expose the students to the basics of the French language and culture. Students will be expected to demonstrate proficiency in listening, speaking, reading, writing, comprehending common words and expressions in French and make short conversations. They will also experience the culture differences between two different nations. Students are motivated to be more interactive and build more interest and confidence learning this language through various activities.

INTRODUCTION TO AGRICULTURE

Two Semesters

Fees: \$10

This course is a guided tour of the world of Agriscience and FFA concepts. The first semester will aid in the development of career skills that employers demand in today's workplace while providing information in the areas of FFA, public speaking, animal science business management and record keeping. The second semester places emphasis on animal sciences, plant sciences and natural resources.

INTRODUCTION TO CHINESE

One Semester

Chinese is designed to primarily expose the students to the basics of Chinese language and Chinese culture. Students will be expected to demonstrate proficiency in listening, speaking, reading, writing, comprehending

common words and expressions in Chinese and make short conversations in Chinese and also experience the culture differences between two different nations. Students are motivated to be more interactive and build more interest and confidence learning this language through various activities.

Units Covered:

- A. Greetings & Expressions of courtesy
- B. Expressions of compliment & mood
- C. Nationality & Self-introduction
- D. Numbers, Ages & Counting
- E. Chinese Pinyin (pronunciation) & Characters Writing
- F. Family
- G. Days & Months
- H. Time & Appointments
- I. Parts of Body
- J. Weather & Seasons
- K. Animals & Zodiac
- L. Fruits & Food
- M. Sports
- N. Chinese Festivals & Holidays

INTRODUCTION TO BUSINESS

The students will be introduced to finance, marketing, economics, production, and management in a survey-like approach to business operations. The student will explore social responsibility, ethics, basic economics, career planning, decision-making, and technology.

INTRODUCTION TO FAMILY AND CONSUMER SCIENCES

One Semester or Two Semesters
Fees: \$10

In this course instructional time will focus on five critical areas: (1) Importance of Relationships; (2) Child Development; (3) Financial Planning; (4) Nutrition & Wellness; (5) Career Planning. This course is an introductory course for the Human Service Pathway at Seaman High School.

INTRODUCTION TO INDUSTRIAL TECHNOLOGY

One Semester
Fee: \$20

7th Grade Description:

Literature is an elective where students will learn about the elements and components of fiction

(classic/modern), nonfiction, fables/tales, short stories, and poetry. Students will learn vocabulary, plot, setting, character, conflict, and resolution. Inferential comprehension will be a focus on the analysis of novels studied. Authors, and sub genres are used to guide the independent reading component of the class. Students must enjoy and have a love of reading in general as we explore all genres in literature.

INTRODUCTION TO SPANISH

One Semester

Students will be exposed to basic Spanish grammar and vocabulary through both spoken and written language. Learners will reproduce teacher-given sentence patterns for use in real-life scenarios. Songs, cultural references, and other activities will support provided topics. By the end of the semester, students should be able to ask and answer basic Spanish questions, both verbally and written, which would be encountered daily in societal situations.

LIBRARY OR OFFICE AIDE

Library Two Semesters; Office One Semester

Students may apply to be an office aide or library aide. Students will be counted on to help with daily operations of the office or library. A limited number of aide positions are available, some students who apply may not be chosen.

LITERATURE

One Semester or Two Semesters

Literature is an elective where students will learn about the elements and components of fiction (classic/modern), nonfiction, fables/tales, short stories, and poetry. Students will learn vocabulary, plot, setting, character, conflict, and resolution. Inferential comprehension will be a focus on the analysis of novels studied. Authors, and sub genres are used to guide the independent reading component of the class. Students must enjoy and have a love of reading in general as we explore all genres in literature.

MATH LAB

One Semester or Two Semesters

Math lab provides support in computation and problem solving based on the specific need of each student. Students are placed in math lab based on Math

FastBridge scores. Math lab can be a semester or year long course.

NATIONAL HISTORY DAY AND UNDERSTANDING SACRIFICE

One Semester or Two Semesters

In this course students will use the National History Day model to explore a major theme in history and master historical researching skills. Students will learn to examine a wide variety of historical sources, both primary and secondary, and evaluate and recognize bias in sources. Critical and creative thinking skills, cooperative learning, problem solving, and effective communication will be emphasized as students use their research to create a historical paper, exhibit board, documentary, performance, or website. After the National History Day competition in February, students will then take part in an in-depth study of World War I and World War II. During this unit, students will conduct research about a World War II service member as part of National History Day's Silent Hero Project.

ORCHESTRA

Two Semesters

String orchestra meets daily for rehearsal. This class performs for many community and school related activities. Occasionally, the class is combined with woodwinds, brass, and percussion instruments to provide a true symphonic orchestral sound.

Units Covered:

- A. Annotation, rhythm groupings, key signature
- B. Balance blend, and proper tone quality
- C. Bowing techniques and fingering techniques from the Baroque to the present
- D. Pitch and ear training

ORGANISMS AND ECOSYSTEMS

One Semester

Fee: \$7.50

Aquaculture courses impart the knowledge and skills needed for producing fish, plants, and other species living in an aquatic environment, and course topics typically include the selection, propagation, harvesting, and marketing of those species. Instruction may also address aquatic and marine biology, ecosystems, water quality and management, and business practices.

PLTW AUTOMATION AND ROBOTICS

One Semester

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

PLTW COMPUTER SCIENCE AND APPLICATIONS

One Semester

This course exposes students to introductory computer science concepts that will encourage them to analyze situations and develop solutions to problems. We will incorporate two areas of interest: Introduction to Mobile App Development, and an Introduction to Physical Computing by Creating and Making 3D Designs. These two areas will provide students with some basic skills and understanding of computer science that will allow them to be successful in future high school courses.

PHYSICAL EDUCATION

One Semester or Two Semesters

Fee: t-shirt fee

Physical education develops physically literate students. Emphasis is on competency in motor skills and movement patterns needed to perform a variety of physical activities. They will apply knowledge of concepts, principles, and strategies related to movement and performance. Students will work toward achieving and maintaining a health-enhancing level of physical activity and fitness. There is also an emphasis on the development of responsible personal and social behavior that respects self and others. Students will recognize the value of physical activity for health, enjoyment, challenge, self-expression and social interaction. The long-range goal for physical education class is for students to have the ability, confidence, and desire to be physically active as an ongoing part of a healthy lifestyle.

Units Covered:

- A. Team and Individual Activities and Sports
- B. Lifetime/Recreational Games
- C. Physical Fitness Activities/Fitnessgram
- D. Strength and Conditioning

READING LAB

One Semester or Two Semesters

Reading lab provides support in accuracy, fluency, and/or comprehension based on the specific need of each student. Students are placed in reading lab based on FastBridge scores. Reading lab can be a semester or year long course.

SPANISH I

Two Semesters

An emphasis will be placed on grammar, vocabulary and oral Spanish. Students will listen to and repeat sentence patterns given by the teacher and practice using Spanish in written, reading, and listening exercises. Students will listen to typical Spanish conversations and practice drills centered around real life situations. Songs, cultural references, videos, and other activities will supplement the text and workbook. By the end of the year, students should be able to carry on short conversations and to write simple sentences in Spanish commonly encountered in societal situations.

SPANISH II

Two Semesters

Spanish II builds on the fundamental language elements taught in Spanish I and continues to focus on the four language skills, which are reading, writing, speaking, and listening in the target language. Students will continue to expand on key vocabulary topics and grammar concepts as reading comprehension and listening. Cultural presentations and interactive activities will reinforce the skills.

STRENGTH AND CONDITIONING

Two Semesters

Fee: t-shirt fee

Prerequisite: One semester of Physical Education

Strength & Conditioning class is recommended for the highly motivated student-athlete. The students will demonstrate a variety of physical fitness components that include muscular and cardiovascular endurance, flexibility and multitude of strength training lifts and techniques with the use of various weight lifting equipment. Students will also demonstrate knowledge of strength training technique, safety requirements and be expected to organize workouts in self-directed and small group settings. The students will demonstrate the proper weightlifting technique in 3 major core lifts: Bench Press, Power & Hang Cleans, Squats. Students will also

demonstrate proper use of the Life Fitness training circuit machines as well as the use of cardiovascular equipment that includes treadmills and elliptical equipment.

Units Covered:

- A. Weightlifting
- B. Cardiovascular conditioning
- C. Fitness Gram Testing/Fitness Activities

WILDLIFE MANAGEMENT

One Semester

Fee: \$7.50

Wildlife and Recreation Management courses provide students with the opportunity to understand and appreciate the importance of maintaining the land and ecological systems that enable non-domesticated animals to thrive. These courses emphasize how humans and animals may both take advantage of the same land or how to gain economic benefits from the land while not degrading its natural resources or depleting plant or animal populations. Students may also learn how to manage wildlife and lands for recreational purposes.