

# SYRACUSE



# SEAHAWKS

SYRACUSE JUNIOR HIGH SCHOOL

COURSE CATALOG

2020-2021

## **CAREER & TECHNICAL EDUCATION (CTE)**

### **College and Career Awareness (CCA) Full Year - 7050**

**Grade: 7 – Required**  
**Class Fee: \$12.00**

College and Career Awareness offers exploration and preparation in college and career pathways focusing on jobs that are high skill and high demand, as well as satisfying and financially rewarding. The College and Career Awareness course is designed to help students identify their interests, abilities, and skills. With appropriate developmental information related to careers, educational pathways, and self-knowledge, students can begin to make college and career goals for the future. College and Career Awareness is designed to acquaint students with the Utah labor market and the employment opportunities for which they can prepare by defining a College and Career Readiness Plan. Through application-based lessons, College and Career Awareness allows students to utilize technology, develop foundational skills, and explore careers. The course provides information regarding additional courses and training related to each student's career field of interest, as they begin to prepare for college and career.

### **Keyboarding 1 Semester – 7552**

**Grade: 7**

In Keyboarding 1, the student will master touch operation of the computer keyboard. Correct finger positioning, by touch on the keyboard, and good technique will receive primary emphasis. The student will also learn simple word processing skills such as formatting simple documents in Microsoft Word. Each student will strive to get 35 WPM with 97% accuracy on a 2-minute timing as a minimum goal for the semester. Keyboard covers will be used throughout the semester. This is a good prerequisite for the required eighth grade Digital Literacy course.

### **Introduction to Computer Game Design (Creative Coding) Semester –7743**

**Grades: 7, 8**

This course is designed to attract and reach a broad and diverse range of students, including those who may not have never considered programming. Students learn how to code by working in a real software development environment to design, program and publish mobile apps and games. Learning to code by creating real products, students discover how

to make amazing things and have an impact on their world.

### **Digital Literacy Semester - 7537 Grade: 8 --Required Lab Fee: \$7.50**

This course is an introduction to computer literacy. Students will have opportunities to use technology and develop skills that encourage creativity, critical thinking, productivity, and collaboration in the classroom and day-to-day life. Skills will be demonstrated by creating a project for a different content area. This course is aligned with national and international standards and the Utah Core to prepare students across multiple levels of skills. Students will complete this course as a prerequisite to move into high school computer literacy courses. (Required for all 8th Grade students)

### **Automating Social Media-Introduction to Coding (Python) Semester –7775 Grades: 8, 9**

This is a basic coding class. Python is a language with a simple syntax, and a powerful set of libraries. It is an interpreted language, with a rich programming environment, including a robust debugger and profiler. While it is easy for beginners to learn, it is widely used in many scientific areas for data exploration. This course is an introduction to the Python programming language for students without prior programming experience.

### **Exploring Computer Science Semester - 7760 Grade: 9 Lab Fee: \$10.00**

Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

### **Child Development Semester – 7410 Grade: 9**

**Lab Fee: \$5.00**

This course is designed to help students understand the normal growth and development of children from infancy to preschool age. Topics taught include parenting, heredity, birth defects, human reproduction, pregnancy, health and safety, and guidance techniques. Students will have the opportunity to experience hands-on parenting using a computerized Real Care Baby.

### **FCS Exploration Semester – 7403 Grade: 8 Lab Fee: \$10.00**

This course provides students the opportunity to develop essential skills in various career pathways related to Family and Consumer Sciences (FCS). Students will explore and cultivate skills in the areas of food and nutrition, childcare, interior design, sewing construction, entrepreneurship, family relationships, personal responsibility, and career and job-related tasks. A variety of hands-on projects will be incorporated into each area.

### **Food and Nutrition 1 Semester – 7460 Grade: 9 Lab Fee: \$15.00**

This course will focus on culinary and nutrition science. Students will qualify for a UTAH FOOD HANDLERS PERMIT. Students will also gain skills and understanding of culinary technology, food preparation and dietary knowledge for a healthy lifestyle. Laboratory experiences will focus on the science behind food preparation as we learn about dishes such as, Fettuccini Alfredo, quick breads, stir-fry, and Ice Cream Cake Roll

### **Interior Design 1 Semester – 7445 Grade: 9 Lab Fee: \$10.00**

This course enables students to explore their creativity in the field of interior design. Identification of the elements and principles of design are emphasized. Other topics taught include floor plan evaluation, furniture arrangement, kitchen design, color schemes, and careers. Students will apply what they learn through a variety of individual projects.

## **Sewing Construction & Textiles 1**

**Semester – 7433**

**Grade: 9**

**Lab Fee: \$10.00. Students are also responsible to pay for consumable materials.**

This course introduces students to basic apparel design and construction skills. These skills prepare students for the exciting global apparel industry and entrepreneurial opportunities. Students will sew apparel and accessory projects. Projects include a stuffed owl, storage bag, quilted pillow, pajama pants, and a utility apron. It is recommended that students have previous sewing experience.

## **Exploring Tech 1**

**Semester - 7810**

**Grade: 8**

**Lab Fee: Students will be asked to pay for consumable materials.**

Exploring Technology is a comprehensive action-based educational course that introduces students to the technological systems: energy-power technologies, information and communications technologies, transportation technologies, manufacturing technologies, and construction technologies. The Technology 1 Construction class provides an opportunity for students to explore the world of work through a variety of exciting hands-on-projects. Each student will build a project of his or her own choice. The curriculum is designed around exploration of these systems.

## **Construction Tech 1 (Woods 1)**

**Semester - 7823**

**Grade: 9**

**Lab Fee: Students will be asked to pay for consumable materials.**

Exploring Technology is a comprehensive action-based educational course that introduces students to the technological systems: energy-power technologies, information and communications technologies, transportation technologies, manufacturing technologies, and construction technologies. The Technology 1 Construction class provides an opportunity for students to explore the world of work through a variety of exciting hands-on-projects. Each student will build a project of his or her own choice. The curriculum is designed around exploration of these systems.

## **Construction Tech 2 (Woods 2)**

**Semester – 7824**

**Grade: 9**

**Lab Fee: Students will be asked to pay for consumable materials.**

Construction Tech 2 allows students to move in to bigger and more advanced projects. The student's will use their knowledge and skills they developed in the Exploring Technology class. This class provides an opportunity for students to explore the world of work through a variety of exciting hands-on projects. They will learn the importance of exact measurements, following written and oral instruction. They will also be able to apply the math skills they have been taught in school and at home. Prerequisite: Exploring Technology.

## **Construction Tech 2 (Sheds)**

**Full Year – 7824**

**Grade: 9**

**Lab Fee: Costs for the projects will vary depending on the project chosen.**

Drafting/CAD/Cabinet & Furniture Design and Construction. This class allows the students to go beyond the Exploring Technology class. The projects they choose can be bigger and have more detail. Students will learn the importance of exact measurements, and following written and oral instruction. They will also be able to apply the math skills they have been taught in school and at home. In addition to building cabinets and furniture for themselves, the students will build and sell sheds. The students will help the instructor assemble the sheds on the owner's property, and enjoy a steak, chicken and shrimp party provided by the instructor.

## **Manufacturing Technology 1 (Metals)**

**Semester – 7825**

**Grade: 9**

**Lab Fee: Students will be asked to pay for consumable materials.**

Students will design and build projects that will test their abilities using steel. Steel can be cut using a high tech plasma CAM (Computer Aided Manufacturing) metal cutter. Students will learn arc or gas welding, depending upon the projects. Class work, including quizzes, tests and homework will be part of this program. Good reading skills and following instructions are necessary.

# **FINE ARTS**

## **Visual Art**

### **Art Foundations 1**

**Semester – 2101**

**Grades: 7, 8, 9**

**Lab Fee: \$10.00**

This class is designed as an introduction to the Visual Arts with an emphasis on the different methods of drawing. Other topics include shading, color theory, and art history. This class is a prerequisite to the next level of art classes at the junior high level. **Students must pass two consecutive terms of Art Foundations 1 for “successful completion,” allowing advancement to the next-level art classes.**

### **2D Art(Adv Found 1B)**

**Semester—2102**

**Grade: 8**

**Lab Fee: \$15.00**

**Prerequisite: Successful completion of Art Foundations 1**

This class continues the development of skills and concepts introduced in Art Foundations 1. The different drawing methods will continue to be emphasized (freehand, mechanical, grids, imagination, and still-life), with an introduction to painting, including watercolor and acrylics.

### **3D Art (Adv Found 1C)**

**Semester – 2104**

**Grade: 8**

**Lab Fee: \$15.00**

**Prerequisite: Successful completion of Art Foundations 1**

This class introduces the skills and craftsmanship of creating three-dimensional works of art. A variety of media is introduced including optic art, the use of mixed media such as cardboard, wood, nylon, lino-cut relief printing, wire and paper mache sculpture, as well as other mixed media constructions. The primary focus of this class will be to encourage students to see the possibilities for creating works of art other than using paper and pencil.

### **Painting/Printmaking (ADV Art Found 2)**

**Semester-2106**

**Grade: 9**

**Lab Fee: \$20.00**

**Prerequisite: Successful completion/passing grade in Foundations Art 1 and Foundations Art 2**

This class in an introduction to painting with watercolors and acrylics and beginning skills in printmaking. Painting includes wet media

with the process such as transparent and opaque painting with some focus on color. The printmaking part of this class teaches how to make fine art prints using the studio process of relief, etching, stencil and mono printing. This course encourages students to create and learn about composition and the steps to completing a work of fine art.

### **3D Art (Design)**

**Semester – 2118**

**Grade: 9**

**Lab Fee: \$15.00**

**Prerequisite: Successful completion of Art Foundations 1**

This class introduces the skills and craftsmanship of creating three-dimensional works of art. A variety of media will be used including paper, cardboard, wood, linoleum, wire, paper mache, as well as other mixed media possibilities. The primary focus of this class will be to encourage students to create works of art in a three dimensional format.

### **Art Foundations 2**

**Semester – 2105**

**Grade: 9**

**Lab Fee: \$15.00**

**Prerequisite: Successful completion of Art Foundations 1**

This class introduces the skill of printmaking, watercolor, and acrylic painting. Printmaking teaches how to make fine art prints using studio processes such as relief, collagraph and intaglio. This class will also teach painting skills using water media. With an emphasis on studio production, this course is designed to develop higher-level thinking and the development and understanding of how to critique and analyses current and historical pieces of art.

### **Ceramics**

**Semester – 2112**

**Grade: 9**

**Lab Fee: \$20.00**

**Prerequisite: Successful completion of Art Foundations 2, 2D Art, or 3D Art**

This class is an introduction to basic ceramic art. This studio course teaches students how to build pottery using the pinch, slab, and coil techniques. All ware will be kiln-fired and glazed. This course will challenge students imaginations as well as their ability to create functioning and aesthetically pleasing works.

### **Commercial Art 1**

**Semester – 2123**

**Grade: 9**

**Lab Fee: \$15.00**

**Prerequisite: Successful completion of Art Foundations 2, or 2D Art**

This class is designed for those who are interested and enthusiastic about art, including those who are considering a career in the Visual Art. Projects will be given in the areas of drawing, painting, and illustration with the purpose of developing skills for use in a career in art. Students will be able to use pencil, colored pencil, ink, drawing, colored chalk and pastels, watercolor, acrylic, and oil paint.

## **MUSIC**

### **Music Exploration**

**Semester – 2316**

**Grade: 7**

**Lab fee: \$3.00**

This class is an introduction to music, including history, vocabulary, musical styles, and basic notation/music literacy. We will sing every day, and play instruments (recorders), but only in a limited way-this is not a performing group.

## **CHOIR**

### **Choir Level 1-Men's Choir (Tenor/Bass)**

**Semester – 2305**

**Grades: 7, 8, 9 (Boys)**

**Lab Fee: \$5.00**

Focusing on beginning basics for music literacy and singing techniques, men's choir is a great way to get started in the Syracuse Jr. High music program. In a single semester, students will learn proper performance posture, rhythmic and melodic literacy, intonation, sight-reading basics, and technical vocal phonation. Students will participate in signing a variety of choral music every class day. This is a great class for students of any grade to start building their musical vocabulary and understanding.

### **Choir Level 1-Women's Choir (Soprano/Alto)**

**Semester – 2304 (Girls)**

**Grades: 7, 8, 9**

**Lab Fee: \$5.00**

Focusing on beginning basics for music literacy and singing techniques, men's choir is a great way to get started in the Syracuse Jr. High music program. In a single semester, students will learn proper performance posture, rhythmic and melodic literacy, intonation, sight-reading basics, and technical vocal phonation. Students will participate in signing a variety of choral music every class day. This is a great class for students of any grade to start building their musical vocabulary and understanding.

### **Choir Level 2 – Singers**

**Semester or Full Year -- 2307**

**Grades: 8, 9**

**Lab Fee: \$5.00**

**Prerequisite: Choir Level 1 or choir teacher approval**

Students will focus on musicianship and performance techniques. Students will build on skills developed in Choir Level 1, exploring more complex music ideas such as scales, triads, and arpeggios. Students will participate in singing a variety of choral music every class day. This course is fun for either a full year or simply one semester-a great option for students who want to pursue music, or participate in lots of electives!

### **Choir Level 3 – Belle Voix**

**Full Year - 2310**

**Grades: 8, 9 (Girls)**

**Audition Only**

**Uniform Fee: \$75.00**

As an elite group of women, Belle Voix will perform to the highest standard in choral music. Students will not only sing every class period, but will also continue their education in music literacy, history, and sight-reading skills. They will learn advanced vocal skills to prepare them to compete in Solo/Ensemble Festival in the spring. Students will be responsible for purchasing a choir uniform at the beginning of the school year. If students have already purchased the uniform from the 2019-2020 school year, the uniform fee will be waved.

### **Choir Level 3 –Concert Choir**

**Full Year – 2310**

**Grades: 8, 9**

**Audition Only**

**Uniform Fee: \$75.00**

As a mixed choir of men and women, students in this course will perform to the highest standard in choral music. Students will not only sing every class period, but will also continue their education in music literacy, history, and sight-reading skills. They will learn advanced vocal skills to prepare them to compete in Solo/Ensemble Festival, as well as District Choir Festival in the spring. Students will be responsible for purchasing a choir uniform at the beginning of the school year. If students have already purchased the uniform from the 2019-2020 school year, the uniform fee will be waved.

## THEATRE

### **Musical Theatre Semester – 2508 Grades: 8, 9 Lab Fee: \$30.00**

This class is designed to orient the student in all aspects of theatre production with an emphasis on performance. Students will learn the skills of performance as well as production. **This class will produce and perform in a school musical outside of class time.** Students will audition for parts as part of the class. Rehearsals will also be held outside of class, and the student will be required to attend.

### **Theatre Level 1 Semester – 2502 Grades: 7, 8, 9**

This course will introduce skills in performance and the study of drama. Students will also read, view, and analyze theatrical works. Each student **MUST** perform throughout the semester. Topics include: movement, voice, script writing, script analysis, characterization, storytelling, and basic acting skills. This is an introductory acting course.

### **Theatre Level 2 Semester – 2503 Grades: 8, 9**

#### **Prerequisite: Theatre 1**

This course is available to students who have successfully completed Theatre Foundations 1. This course will continue to introduce skills in performance and the study of drama by expanding upon skills learned in Theatre 1. Students will also read, view, and analyze theatrical works. Topics include: movement, script writing, dramatic structure and elements, theatre history, Shakespeare and classical acting, script analysis, one-act plays, and improvisation. There is not an outside class performance, but students will produce a one-act play at the end of the semester. All work is done in class, attendance is critical.

### **Stage Craft Full Year – 2514 Grades: 8, 9**

This class would offer classroom instruction as well as hands on experience in all aspects of theatre production. Students would learn the basics of set design and construction, costume design and construction, stage lighting, and sound. In addition, they would learn about and ultimately be responsible for proper maintenance of all backstage work and storage spaces. These students would serve as “crew” for school plays and musicals but would also be available to assist with assemblies and other school programs.

## BAND

### **Beginning Band -- Brass Full Year - 2204 Grades: 7, 8, 9**

Beginning instruction on trumpet, French horn, trombone, baritone, and tuba. No experience required. Students provide their own instrument and music book; some instruments are available for rental from the district (\$95/year); please reserve an instrument with Mr. Poulter before paying. 125 minutes of home practice is required each week. This fun band performs at 3 or 4 concerts per year. Additional information will be sent to those who register.

### **Beginning Band --Woodwinds Full Year – 2205 Grades: 7, 8, 9**

Beginning instruction on flute, oboe, bassoon, and clarinet. (Students who complete this class may audition to play saxophone and bass clarinet during their second year of band.) No experience required. Students provide their own instrument and music book; some instruments are available for rental from the district (\$95/year); please reserve an instrument with Mr. Poulter before paying. 125 minutes of home practice is required each week. This fun band performs at 3 or 4 concerts per year. Additional information will be sent to those who register.

### **Beginning Band -- Percussion Full Year -- 2206 Grade: 7**

Beginning instruction on percussion instruments, including bells, snare drum, and timpani. Space in percussion class is very limited. Two or more years of piano background are recommended. Preference is given to students who complete a percussion pretest and return registration materials promptly. Students provide their own percussion kit, and book, and pay a \$65 District Instrument Use fee to use school percussion instruments. 150 minutes of home practice is required each week. This fun band performs at 3 or 4 concerts per year. Additional information will be sent to those who register.

### **Band Level 2 - Concert Full Year – 2210 Grades: 8, 9**

**Eligibility: Teacher Approval**  
Intermediate instruction on band instruments, including saxophone, with emphasis on independent musicianship and music theory. This band performs at school concerts and assemblies and at district festival.

### **Band Level 2 - Percussion Full Year – 2213**

**Grades: 8, 9**

#### **Eligibility: Teacher Approval**

All percussionists who have successfully completed the Beginning Band/Percussion class should register for this course. Continuing instruction on drums, mallets, timpani, auxiliary percussion, drum set, and percussion ensemble music. Students pay a \$95 district use fee to use school instruments

### **Band Level 3 - Symphonic Full Year – 2220**

**Grades: 8, 9**

#### **Eligibility: Successfully completed Intermediate Band, or by audition.**

Advanced instruction on band instruments with emphasis on interdependent musicianship and composition. This course satisfies Fine Arts requirements for high school graduation. This band performs at school concerts and assemblies, in the community, and at district and state festivals. This band composes the soundtrack for a silent film.

### **Band Level 3 - Jazz Full Year – 2225**

**Grades: 8, 9**

#### **Prerequisite: By Audition Only**

Focused, accelerated instruction in jazz styles and improvisation. Open by audition only to students playing saxophone (doubling clarinet or flute), trombone, trumpet, bass, piano, and percussion. Guitarists are sometimes added, but must play and read music at an intermediate level. Students must be concurrently enrolled in another large music ensemble, preferably Symphonic Band. Jazz Band meets daily at 7am, and is a “for-credit” class with an Honors approach. Students learn to compose & improvise music. This band performs at school concerts and assemblies, in the community, and at district and state festivals.

### **Band Level 3 - Percussion Full Year – 2224**

**Grade: 9**

#### **Audition Only**

#### **Prerequisite: Successful completion of Intermediate Percussion.**

All percussionists who have successfully completed the Intermediate Band/ Percussion class should register for this course. Continuing instruction on drums, mallets, timpani, auxiliary percussion, Latin percussion, drum set and percussion ensemble music. Students pay a \$95 district use fee to use school instruments.

## ORCHESTRA

### **Orchestra 1**

**Full Year - 2405**

**Grades: 7, 8**

This class is a continuation of material learned in 6th grade beginning orchestra (includes violin, viola, cello, and bass.) Exceptions may be arranged with the teacher on an individual basis if the student did not participate in elementary orchestra. Students provide their own instrument and Essential Elements Book 2. A few cellos and basses are available for rent from the district on a first come first serve basis. This orchestra class performs three times throughout the school year.

### **Orchestra 2A**

**Full Year – 2407**

**Grade: 8**

**Prerequisite: Orchestra 1 or two years playing experience**

This class emphasizes rhythm, intonation, and broadening technique for the intermediate violin, viola, cello, or string bass student. At least two years of previous orchestra experience is encouraged. Students provide their own instrument and Essential Technique Book 3. A few cellos and basses are available for rent from the district on a first come first serve basis. This orchestra performs at school concerts, assemblies, and in district/state festivals

### **Orchestra 2B**

**Full Year - 2408**

**Grades: 9**

**Prerequisite: Orchestra 2 or three years playing experience**

This advanced class is for students that have had at least three years of orchestral playing experience. Independent musicianship, music theory, vocabulary, posture and personal growth are emphasized in preparation for high school orchestra. Students provide their own instrument and Essential Technique Book 3. A few cellos and basses are available for rent from the district on a first come first serve basis. This orchestra performs at school concerts, assemblies, and in district/state festivals.

## LANGUAGE ARTS

### **English 7**

**Full Year - 4000**

**Grade: 7**

The main emphasis is on reading and writing, both nonfiction and fiction. The class also includes grammar, spelling, plays, and public speaking. Students read short stories,

biographies, and novels in class and out of class.

### **English 7 Honors**

**Full Year – 4005**

**Grade: 7**

Honors courses are designed for college prep or pre-AP classes students may take during their high school years. The main emphasis is on reading and writing, both nonfiction and fiction. The class also includes grammar, spelling, plays, and public speaking. Students in an honors course can expect increased reading and more complex texts, less review and practice, and a higher work completion expectation. If students do not enjoy reading or are below grade level, they can expect to struggle in honors English.

### **English 8**

**Full Year – 4030**

**Grade: 8**

This class continues to build skills in reading, writing, speaking and listening. Students work with various types of literature including short stories, plays, and novels. They learn sentence and paragraph development, including grammar, spelling, capitalization and punctuation. Students also learn the composing process of prewriting, drafting, revising and editing.

### **English 8 Honors**

**Full Year - 4035**

**Grade: 8**

Honors courses are designed for college prep or pre-AP classes students may take during their high school years. The main emphasis is on reading and writing, both nonfiction and fiction. Students in an honors course can expect increased reading and more complex texts, less review and practice, and a higher work completion expectation. If students do not enjoy reading or are below grade level, they can expect to struggle in honors English. This course continues to build skills in reading, writing, speaking, listening, and the analysis of various types of literature while reviewing the basics of sentence and paragraph development.

### **English 9**

**Full Year – 4055**

**Grade: 9**

This class continues the development of skills in reading, writing, speaking, vocabulary, and listening. Students study a variety of literature, including Shakespeare and Homer. There will be much reading expected both in and outside of class. Students will also improve their library and research skills as a major research project will be required.

### **English 9 Honors**

**Full Year – 4060**

**Grade: 9**

Honors courses are designed for college prep or pre-AP classes students may take during their high school years. The main emphasis is on reading and writing, both nonfiction and fiction. Students in an honors course can expect increased reading and more complex texts, less review and practice, and a higher work completion expectation. If students do not enjoy reading or are below grade level, they can expect to struggle in honors English. This course continues the development of skills in reading, writing, speaking, and listening. Writing is emphasized while improving vocabulary and research skills. The culmination of the course is the development and writing of a research paper, using appropriate structure, grammar, citations, and form.

### **Read 180**

**Semester or Full Year --4225**

**Grades: 7, 8**

This is a reading class to help students improve their comprehension and other reading skills. Students spend time working in a computer program that adapts to their individual reading levels. They explore and read about topics of interest, have access to a wide range of books, eBooks, eReads, short articles, and work within small groups, and receive individual help as needed. Some students may be pre-selected for this class. This class is highly recommended for a student with a Lexile reading score of 800 and below. This class is also available for 7<sup>th</sup> grade students who read below their grade level with a Lexile reading score of 970 and below, and for 8<sup>th</sup> grade students who read below their grade level with a Lexile reading score of 1010 and below.

## HEALTH & PHYSICAL EDUCATION (P.E.)

### **P. E. Beginning Fitness 7**

**Semester – 1020**

**Grade: 7**

Students learn to develop positive attitudes regarding physical activity and healthy lifestyles. They will improve flexibility, strength, agility, balance, speed and endurance. They will develop skills in volleyball, basketball, soccer, flag football, and other team sports.

## **P.E. Intermediate Fitness 8**

**Semester - 1021**

**Grade: 8**

Designed to help students develop positive attitudes regarding physical activity and healthy lifestyles. Students will improve flexibility, strength, agility, balance, speed and endurance. They will continue to develop skill in volleyball, basketball, soccer, flag football, and other team sports.

## **P.E. Skills and Techniques 9**

**Semester - 1022**

**Grade: 9**

Develops skills and techniques in a variety of sports, games and alternative fitness activities with an emphasis on individual sports. Emphasis is also placed on leadership, courtesy respect, sportsmanship, and physical fitness.

## **Health Education**

**Semester - 1000**

**Grade: 8 – Required**

Designed to develop skills needed to improve the quality of life by helping by students to cope with and solve problems. Students study the stages of growth and development and maturation; positive health lifestyles; high risk lifestyles, disease prevention; sex respect values, abstinence; emergency procedures and first aid care.

## **DANCE**

### **Beginning Dance**

**Semester - 1041**

**Grades: 7, 8, 9**

**Activity Apparel Fee: \$10.00**

Beginning Dance is a beginning level dance course which builds dance knowledge and skill in technique, improvisation, choreography, history, and performance. Daily activities will include warm up, floor work, choreography, and cool down. A dance performance is a requirement in this class. All levels of dance are welcome.

### **Intermediate Dance**

**Semester - 1041**

**Grade: 7, 8, 9**

**Prerequisite: Two years of prior dance experience or teacher approval.**

**Activity Apparel Fee: \$10.00**

Intermediate dance is an intermediate level dance course which builds upon prior dance knowledge. Students should have a foundation in dance technique, improvisation, choreography, and performance. A dance performance is a requirement in this class. Students will work together to choreograph pieces for the recital.

## **MATHEMATICS**

### **7th Grade Math**

**Full Year – 5000**

**Grade: 7**

The course instruction will focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale-drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples.

### **7th Grade Math Honors**

**Full Year – 5005**

**Grade: 7**

The course instruction will cover the four critical areas listed in the 7<sup>th</sup> Grade Mathematics Course and add extra topics that would interest an advanced middle school student. Concepts will be explored to a greater depth with increased use of contextual situations. This course will have increased rigor and advanced content that will challenge the minds of high ability students.

### **8th Grade Mathematics**

**Full Year – 5100**

**Grade: 8**

The course instruction will focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate 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.

### **8th Grade Mathematics Honors**

**Full Year – 5105**

**Grade: 8**

The course will cover the three critical areas listed in 8<sup>th</sup> Grade Mathematics Course and add extra topics and concepts that would interest an advanced middle school student. Concepts will be explored in greater depth with increased use of contextual situations. This course will have increased rigor and advanced content that will challenge the minds of high ability students.

## **Secondary Mathematics 1**

**Full Year – 5200**

**Grade: 9**

The course will focus on developing a solid understanding of function, and use that understanding to explore many examples of functions, including sequences. It will deepen and extend understanding of linear relationships and connect that understanding to exponential functions. It will build on prior experiences with data to develop formal methods of data analysis. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas will be tied together.

## **Secondary Mathematics 1 Honors**

**Full Year – 5205**

**Grade: 9**

The course will cover all the concepts in the Secondary Mathematics 1 course. Concepts will be explored in greater depth with increased use of contextual situations. In addition, it will include concepts dealing with vectors and quantities of vectors and matrix operations and their applications. This course will include elements that will prepare students to take calculus in high school. This course will have increased rigor and advanced content that will challenge the minds of high ability students.

## **Secondary Mathematics 2 Honors**

**Full Year – 5305**

**Grade: 9**

This course is for students with a serious commitment to attend college. Students must be enrolled in the Honors level of Secondary Mathematics 2 to eventually take AP Calculus and/or AP Statistics, and very likely earn college math credit, before graduating from high school. Students will gain a strong foundation in geometry, trigonometry and second year algebra as well as some work with statistics. This is a college prep level course that will teach students critical thinking skills, and strong work ethic, while preparing them for Secondary III Honors and college entrance exams. Students will need a graphing calculator for this course. We suggest the TI 84 + edition. These are also available to rent for \$20 per semester.

## **SCIENCE**

### **Integrated Science 7**

**Full Year – 6000**

**Grade: 7**

**Lab Fee: \$10.00**

Seventh grade standards look for relationships of cause and effect which enable students to pinpoint mechanisms of nature and allow them to make predictions. Students will explore how forces can cause changes in motion and are responsible for the transfer of energy and the cycling of matter. This takes place within and between a wide variety of systems, from simple, short-term forces on individual objects to the deep, long-term forces that shape our planet. In turn, Earth's environments provide the conditions for life as we know it. Organisms survive and reproduce only to the extent that their own mechanisms and adaptations allow. Evidence for the evolutionary histories of life on Earth is provided through the fossil record, similarities in the various structures among species, organism development, and genetic similarities across all organisms. Additionally, mechanisms shaping Earth are understood as forces affecting the cycling of Earth's materials.

### **Integrated Science 7 Honors**

**Full Year – 6001**

**Grade: 7**

**Lab Fee: \$10.00**

Uses the Integrated Science 7 standards. Students will work at an accelerated pace, with more in-depth information, to further develop science as a process of obtaining knowledge and analyzing outcomes based on observable evidence. Students will develop the ability to formulate hypotheses, design and carry out strategies to test them, and evaluate results. This course is designed to prepare students for advanced high school courses.

### **Integrated Science 8**

**Full Year – 6100**

**Grade: 8**

**Lab Fee: \$10.00**

The eighth grade standards describe the constant interaction of matter and energy in nature. Students will explore how matter is arranged into either simple or complex substances. The strands emphasize how substances store and transfer energy, which can cause them to interact physically and chemically, provide energy to living organisms, or be harnessed and used by humans. Matter and energy cycle and change in ecosystems through processes that occur during photosynthesis and cellular respiration. Additionally, substances that provide a benefit to organisms, including humans, are unevenly distributed on Earth due to geologic and atmospheric systems. Some resources form

quickly, allowing them to be renewable, while other resources are nonrenewable. Evidence reveals that Earth systems change and affect ecosystems and organisms in positive and negative ways.

### **Integrated Science 8 Honors**

**Full Year – 6101**

**Grade: 8**

**Lab Fee: \$10.00**

Uses the **Integrated Science 8** standards. Students will work at an accelerated pace, with more in-depth information, to review the process of obtaining knowledge and analyzing outcomes based on observable evidence. Students will gain awareness of the increasingly international context of scientific activity, its impact and limitations as well as the constant evolution of scientific knowledge and understanding. This course is designed to prepare students for advanced high school courses.

### **Biology**

**Full Year – 6200**

**Grade: 9**

**Lab Fee: \$15.00**

This is a full year rigorous course designed for students to learn about, examine, and investigate life processes that occur on the Earth. These investigations will include organisms that are microscopic and multicellular, living and dead. This course will be rigorous in nature and pace. Before electing to take this course, students should consider their individual abilities to work at a fast pace and comprehend in depth processes and discussions of biological life

### **Earth Systems**

**Full Year – 6300**

**Grade: 9**

**Lab Fee: \$10.00**

This class meets the general science requirements for ninth grade and counts for high school graduation. This course explores Earth, geologic change, and the interaction of the atmosphere, hydrosphere, and biosphere. This course builds upon student's experience with integrated science seven and eight and is the springboard to success in biology, chemistry, geology and physics. The two primary goals associated with the understanding of how systems work: 1.) use science as a process of obtaining knowledge based on observation and evidence, and 2.) students' curiosity will be sustained as they develop the abilities associated with the scientific method.

### **Earth Systems Honors**

**Full Year – 6301**

**Grade: 9**

**Lab Fee: \$10.00**

This is a course that explores Earth, space, geological change, the interaction of atmosphere, hydrosphere, and biosphere through the lenses of Science and Engineering Practices and CrossCutting Concepts. This course builds upon students' experience with integrated science in grades seven and eight and is the springboard for success in both Honors and Advanced Placement high school courses of biology, chemistry, geology, and physics.

### **AP Environmental Science**

**Full Year – 6330**

**Grade: 9**

**Lab Fee: \$94.00 for AP test**

This is a full year course designed for science students that examines a variety of natural sciences (ecology, chemistry, biology, geography) and several social sciences (economics, politics, ethics). AP Environmental Science is a college level course for students who have above-average study skills and the desire to change the world in which they live in. This course is designed to help students understand many topics (local and national) and subjects within the environmental science field. This course is designed to promote environmental science literacy so that students will be better prepared to make decisions about issues that impact the environment. (Passing the AP exam gives college credit).

### **Robotics (Science Exploration)**

**Semester – 6700**

**Grades: 7, 8**

**Lab Fee: \$10.00**

Students will learn to build and program VEX IQ robots. Students will practice mechanical design, construction, programming and teamwork skills. Using VEX IQ building pieces, motors and sensors, students will build robots that can complete a variety of challenges and obstacles. Students will use a controller to drive their robot and a computer to program their robot. In this course, students will work through processes of idea creation, planning, logical thinking, analysis and computational thinking to solve problems and accomplish goals. This course is designed for students in 7th and Grade: 8 who are interested in developing their programming and engineering skills.



## **SOCIAL STUDIES**

### **Foundation of Social Studies/Utah Studies**

**Semester – 4500**

**Grade: 7**

The introductory course for social studies in Davis School District. Curricular content consists of key themes and concepts drawn from the social sciences of geography, history, economics, and government. Each of the concepts is explored using Utah-specific examples, or Utah Studies. Literacy, historical thinking, and spatial skills are developed through the study of the concepts in the abstract and real-world Utah examples. The course focuses on the reading of both informational text and authentic, or primary source, material.

### **Utah Studies Honors**

**Semester – 4504**

**Grade: 7**

The introductory course for social studies in Davis School District. Curricular content consists of key themes and concepts drawn from the social sciences of geography, history, economics, and government. Each of the concepts is explored using Utah-specific examples, or Utah Studies. Literacy, historical thinking, and spatial skills are developed through the study of the concepts in the abstract and real-world Utah examples. National and global context are additional levels of application of the coursework. Current Events are studied daily as well. The course focuses on the reading of both informational text and authentic, or primary source, material. Two projects minimum are required in this course.

### **US History 1**

**Full Year – 4510**

**Grade: 8**

United States History covers events and issues from the Age of Exploration through Reconstruction and the western movement, emphasizing the 18th and 19th centuries. Topics covered will include, but are not limited to: exploration, colonization, Revolutionary War, constitutional issues, nation building, Civil War, Reconstruction, and western movement. Emphasis of this course is on the 18th and 19th centuries.

### **US History 1 Honors**

**Full Year – 4514**

**Grade: 8**

United States History covers events and issues from the Age of Exploration through Reconstruction and the western movement, emphasizing the 18th and 19th Centuries.

Topics covered will include, but are not limited to: exploration, colonization, Revolutionary War, constitutional issues, nation building, Civil War, Reconstruction, and western movement. Viewing historical documents, writing document based questions (DBQ), current event exploration and presentation, and projects are part of the Honors experience.

### **World Geography**

**Full Year – 4520**

**Grade: 9**

Geography for Life will explore how to use geography as a tool to better understand the world in which we live. Students will learn to evaluate and question the why and where of spatial perceptions that is read, seen, and heard. Students will understand the world in spatial terms, the human and physical characteristics of places and regions, and how physical processes shape the earth's surface. Students will also understand how human activities shape the earth's surface, the interaction of physical and human systems and will use geographic knowledge to connect to today's world. The course will include map skills with physical and human geography essentials, beginning with North America, South America, Europe, and their connections to other world regions.

### **World Geography Honors**

**Full Year - 4524**

**Grade: 9**

This course covers all the material taught in Geography for Life but adds emphasis to developing writing skills and higher levels of thinking. In depth research, study, and problem solving regarding particular regions of the world will be addressed and analyzed.

### **AP Human Geography**

**Full Year – 4590**

**Grade: 9**

**Lab Fee:** \$94.00 for AP test

The AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The aim of the AP course is to provide students with a learning experience equivalent to that obtained in most college-level introductory human geography courses. Students prepare to take the AP Human Geography test in May, potentially earning them college credit.

### **Civics - Mock Trial**

**Semester – 4532**

**Grades: 8, 9**

This course is designed to help students understand the American justice system through the study and performance of "mock trials." Topics included in this course will be "What is Law" "How Laws are Made" "Crime and Punishment" "Rights of Citizens in the justice system" "Criminal vs. Civil Proceedings in Courts" and of course, "Trial Procedure". Students will be taught questioning procedures, for direct examination and cross examinations in our Mock Trials. Students will take notes, relate current events to the law, perform in Mock Trials, participate in classroom discussions and debates, and occasionally be quizzed and tested on course material.

### **Current Issues**

**Semester-4531**

**Grades: 8, 9**

This class explores current events and issues and how various regions of the world interact. This class helps to obtain a higher level of media literacy, differentiating substantive and factual reporting from outlandish reporting. A current issues class also affords students with an opportunity to learn the background of various world as they learn about them in real time.

## **WORLD LANGUAGES**

### **Chinese 1**

**Full Year – 3310**

**Grades: 7, 8, 9**

This is an introductory course in Chinese emphasizing listening, reading in pinyin, speaking, and writing in pinyin. Students will learn how to communicate basic information in Chinese. Chinese culture is also taught. It emphasizes listening comprehension, reading in pinyin, speaking in short sentences, and writing stories in pinyin.

### **Chinese 2**

**Full Year – 3320**

**Grades: 8, 9**

**Prerequisite: Chinese 1**

This course gives students the opportunity to magnify their communication skills in Chinese by reviewing past material, and adding new vocabulary. Students will also be exposed to more Chinese culture is also taught. It emphasizes listening comprehension and speaking complete sentences, reading in pinyin, and writing stories in pinyin.

**Chinese 3****Full Year – 3330****Grade: 9****Prerequisite: Chinese 2**

This course gives students the opportunity to magnify their communication skills in Chinese by reviewing past material, and adding new vocabulary. Students will also be exposed to more Chinese culture. It emphasizes listening comprehension, speaking complete sentences, and reading Chinese characters, and writing stories in pinyin.

**Chinese 3 DLI Honors****Full Year – 3332****Grade: 7****Prerequisite: Immersion Students and/or a score of I1 on AAPPL test.**

This course continues the development of speaking, listening, reading and writing skills. Narratives and dialogues are used to teach structure and vocabulary. Culture and geography of the native country are taught through reading selections.

**Chinese 4 DLI Honors****Full Year – 3342****Grade: 8****Prerequisite: Chinese 3 DLI Honors**

This course continues the development of speaking, listening, reading and writing skills. Narratives and dialogues are used to teach structure and vocabulary. Culture and geography of the native country are taught through reading selections.

**Chinese 5 DLI Honors****Full Year -- 3352****Grade: 9****Prerequisite: Chinese 4 DLI Honors**

This course not only continues the development of speaking, listening, reading, and writing skills but also culture, history and geography of the native country are taught through reading selections. It leads to the Chinese AP Language & Culture Course and Test.

**Spanish 1****Full Year - 3110****Grades: 7, 8, 9**

This rigorous introductory course in Spanish emphasizes listening, reading, speaking, and writing. Students will learn how to communicate basic information in Spanish. Hispanic culture is also taught. Students must achieve a novice mid proficiency level to continue to level 2. It is strongly recommended that students are at grade level in English Language Arts Reading and Writing.

**Spanish 2****Full Year – 3120****Grades: 8, 9****Prerequisite: Spanish 1.**

This course gives students the opportunity to magnify their communication skills in Spanish. Reading outside of class is required. Continued emphasis will be given to listening, reading, speaking, and writing. Students will also be exposed to more Hispanic culture. Students must achieve a novice high proficiency level to continue to level 3.

**Spanish 3****Full Year – 3182****Grade: 9****Prerequisite: Spanish 2.**

This course is an opportunity for students to increase their confidence in communicating information and expressing ideas in Spanish. Students will also broaden their understanding of grammar concepts and culture. Continued emphasis will be given to listening, reading, speaking, and writing. Reading, speaking and listening practice outside of class time is required. Students must achieve an intermediate low proficiency level to continue to level 4.

**Spanish 3 DLI Honors****Full Year – 3132****Grade: 7****Prerequisite: 6<sup>th</sup> Grade Spanish DLI and heritage Speakers.**

This course continues the development of speaking, listening, reading and writing skills. Narratives and dialogues are used to teach structure and vocabulary. Culture and geography of the native country are taught through reading selections. For dual immersion students. Students must achieve an intermediate mid proficiency level.

**Spanish 4 DLI Honors****Full Year – 3142****Grade: 8****Prerequisite: Spanish 3 DLI Honors and heritage Speakers.**

This course continues the development of speaking, listening, reading and writing skills. Narratives and dialogues are used to teach structure and vocabulary. Culture and geography of the native country are taught through reading selections. For dual immersion students. Students must achieve an intermediate high proficiency level.

**Spanish 5 DLI Honors****Full Year -- 3152****Grade: 9****Prerequisite: Spanish 4 DLI Honors and heritage speakers.**

This course not only continues the development of speaking, listening, reading, and writing skills but also culture, history, and geography of Spanish speaking countries are taught through reading selections. It leads to the Spanish AP Language & Culture Course and Test.

**DLI Spanish Culture & Media****Semester-3135****Grades: 7, 8****Prerequisite: 7<sup>th</sup> & 8<sup>th</sup> Grade Spanish DLI**

The Culture & Media course builds skills in cultural-linguistic competencies necessary for successful communication with native speakers. Students utilize media and authentic texts to learn about the diverse cultural products, practices, and perspectives of countries. The topics and task for the 7th and 8th grade years, along with careful support for students to reach proficiency targets, lead intentionally to the Spanish AP Language & Culture course content

**ADDITIONAL ELECTIVES****Counseling Assistant****Semester – 212****Grades: 8\*, 9**

**Eligibility: 3.0 GPA/no "U" Citizenship marks**  
Counseling Assistants file, answer the telephone, alphabetize, organize and help the counselors and secretary. Eligible students are expected to respect issues of confidentiality as they arise in the counseling office. \*8<sup>th</sup> grade students will need approval of *counseling secretary*.

**Creative Writing****Semester -- 4335****Grades: 7, 8, 9**

Creative Writing explores different types of fiction writing. This course is designed with the goal of inspiring students to develop original pieces of work. Students should expect to write daily and present their work to their classmates, both by sharing their writing and speaking to the class

**Intro to Public speaking****Semester – 4375****Grades: 7, 8, 9**

This course will introduce students to the role of effective communication in our world today. Communication theory and a variety of methods and mediums will be explored. In addition, students will have the opportunity to

research, prepare and present speeches for several different purposes including to persuade, to inform, and to entertain. Through these experiences, students will improve public speaking skills and increase self-confidence.

#### **Library/ Media Assistant**

**Semester - 215**

**Grade: 8, 9**

#### **Required: Preapproval by the Librarian**

Library Skills is designed for students who enjoy variety in their daily tasks, who are computer literate, and like to read. In-class assignments, checking books in and out, shelving books, and completing errands and tasks for the operation of the library.

#### **Literature Survey (The Last Great Race)**

**Semester --4154**

**Grades: 7, 8, 9**

This course is designed for students who love to read about new places, people, and events. This is an opportunity to travel through time to explore fascinating places, learn how kids are solving problems and saving lives, and to meet some of the people who have helped to shape the way we live today. This class is designed for students who want to dig deep into topics that interest them. Take an adventure as you ride along with mushers, past and present, who have preserved the culture and traditions of the Iditarod, Alaska's Last Great Race. Students will experience reading through many perspectives and opportunities.

#### **National Academic League (NAL)**

**1<sup>st</sup> Semester Only -- 408**

**Grades: 7, 8, 9**

**Fee: \$32.00**

The National Academic League (NAL) class is a trivia-based curriculum covering all subjects through ninth grade (Math, Science, History, English, etc.). Study sessions, presentations, and matches will be held in class for the purpose of learning the rules of the game and to foster a competitive edge. This class helps prepare the NAL team for the competition season, which are November through February. Participation in the NAL competitions are expected.

#### **Office Assistant**

**Semester – 210**

**Grade: 9**

**Eligibility: 3.0 GPA/no "U" Citizenship marks**

Work at the counter in the main office answering the telephone and helping at the attendance window.

#### **Peer Tutor**

**Semester – 213**

**Grades: 8, 9**

Students are teacher assistants who assist both regular and special education teachers. Peer tutors mentor students and assist the teacher, as requested. The peer tutor will not be asked to discipline other students. Duties vary according to subject. Students who assist teachers will not record grades or attendance. They may do routine clerical work. Peer tutors receive pass/fail grade for their work.

#### **Released Time 9 (Seminary)**

**Full Year – 850**

**Grade: 9**

No credit is given toward high school graduation.

#### **Study Hall**

**Semester – 400**

**Grades: 7, 8, 9**

This class is an opportunity for students to have extra time and support to complete their homework assignments from their other classes. Grading will be based on classroom preparedness and participation. Students who are self-starters will find this class to be particularly rewarding.

#### **Study Skills**

**Semester -- 400**

**Grades: 7, 8, 9**

*This class may only be taken once.* The purpose of Study Skills is to teach specific concepts related to school success, correct study principles for home and school, independence, self-motivation, self-discipline, choices and consequences, and skills for lifelong learning.

#### **Teacher Assistant**

**Semester - 211**

**Grades: 8, 9**

**Required:** Teacher Permission/Signature. Class is graded on Pass/Fail. The teacher assistant will be under the direction of one teacher. The teacher will assign duties to the assistant as needed.

#### **Yearbook**

**Full Year – 4365**

**Grades: 8, 9**

**\*Students are selected based on an application process during the spring of 2020**

Yearbook combines elements of photography, graphic design, and journalism to create the yearbook for the student body. Students are expected to attend several school events outside of regular school hours, and the class does require some homework to meet deadlines.

## **Jr. High Honors Courses Indicators for Student Success**

**Please thoughtfully consider the following criteria as you are making a decision about whether or not Jr. High Honors level courses will provide the most appropriate learning environment. A student should:**

Typically be performing at a **proficient level** on the **Student Assessment of Growth and Excellence (SAGE)** in a specific subject area before considering enrolling in an Honors level course for that subject area.

1. Consistently earn an **“A” or “B” (or a “3”** for 6<sup>th</sup> graders) for the subject in which they desire to take an Honors course.
2. Have a **high level of interest** and **strong desire to be challenged** in the subject in which they would like to take an Honors course.
3. Consistently exhibit most of the following characteristics:

### **Learning/Intellectual Characteristics:**

- Enjoys tasks that are more challenging than average
- Has a ready grasp of underlying principles and can quickly make valid generalization about events, people, and things.
- Tries to understand complicated material by separating it into its respective parts; reasons things out
- Analyzes problems and considers alternatives
- Enjoys complex concepts and processes

### **Motivational/Affective Characteristics:**

- Becomes absorbed and truly involved in certain topics or problems
- Needs little external motivation to follow through in work completion
- Often requires little direction from teachers
- Is highly self-motivated and persistent
- Has high expectations of self and others

**When deciding whether or not to enroll a student in a particular subject area honors course, please consider the following subject specific characteristics:**

### **Math/Science:**

- Is interested in numerical analysis
- Has a good memory for storing main features of problem and solutions
- Reasons effectively and efficiently
- Organizes data and experiments to discover patterns or relationships
- Is flexible in solving problems

### **Social Studies/Language Arts:**

- Has advanced vocabulary for age or grade level
- Reads a great deal; does not avoid difficult material
- Enjoys language/verbal or written communication; has advanced communication skills
- Organizes ideas and sequences in preparation for speaking and writing
- Likes study and research in areas of interest

# What do the terms “depth”, “complexity” and “higher-order thinking skills” really mean?

**Depth:** (Based upon the work of Sandra Kaplan, adapted by Jere Fitterman 2008)

- **Language of the Discipline** – Using vocabulary terms that are specific to the content or discipline (jargon, acronyms, slang, abbreviations, special phrases and terms).
- **Details** – Examining the defining features or characteristics; finding examples and evidence to support opinions and ideas.
- **Patterns** – Looking at elements that reoccur; sequencing and order of events; making predictions based on past events.
- **Unanswered Questions** – Asking what information is unclear, missing, or unavailable? What evidence is needed? What has not yet been proven?
- **Rules** – Examining the structure that underlies the subject, including the guidelines or regulations that affect it. Determining the hierarchy or ordering principles that are at work.
- **Trends** – Noting factors (social, political, economic, scientific, artistic, geographic) that cause events to occur. Identifying patterns of change over time.
- **Ethics** – Considering the moral principles involved with the subject. What controversies exist and what arguments could emerge from a study of the topic?
- **Big Ideas** – Asking what theories or general statements apply to these ideas? How do these ideas relate to broad concepts such as change, systems, etc.? What is the main idea?

**Complexity:** (Based upon the work of Sandra Kaplan, adapted by Jere Fitterman 2008)

- **Across the Disciplines** – Relate the area of study to other subjects within, between, and across disciplines.
- **Changes Over Time** – Examine how elements are related in terms of the past, present, and future. How and why do things change? What doesn't change?
- **Different Perspectives** – How would others see the situation differently? What are the opposing viewpoints?

**Higher-Order Thinking:** (Bloom's Revised Taxonomy)

- **Analyzing** – Breaking information down into its component elements (comparing, organizing, deconstructing, outlining, structuring, integrating).
- **Evaluating** – Judging the value of ideas, materials and methods by developing and applying standards and criteria (hypothesizing, critiquing, experimenting, judging, detecting, monitoring).
- **Creating** – Putting together ideas or elements to develop an original idea or engage in creative thinking (designing, constructing, planning, producing, inventing, devising).