

Class Descriptions

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Grades K-2

K-2 Math

Semester:	Yearlong
Day and Block:	Monday – Block 2
Grade Level Range:	Kindergarten - 2 nd Grade
Class Size Limit:	20
Course Description:	Students develop understanding of the number system, including how the position of a digit affects its value, and use this knowledge to develop skill with more complex computation. They begin making measurements with standard measuring tools. Core content includes: place value and the base ten system, addition and subtraction, measurement, numbers, operations, data/statistics/probability, and core processes of reasoning, problem solving, and communication.

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K-2 Art

Semester:	Yearlong
Day and Block:	Monday – Block 1
Grade Level Range:	Kindergarten - 2 nd Grade
Class Size Limit:	20
Course Description:	Students will participate in Art lessons based on the Elements and Principles of Design. They will use excellent art materials with an emphasis on process, not product. They will be designing, drawing, painting, printing, carving and using clay. The atmosphere in this class is safe and based on individual expression. Focus will be on appropriate grade level expectations and creative endeavors. There is a \$10 course fee to cover materials.

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K-2 Science

Semester:	Yearlong
Day and Block:	Wednesday – Block 3
Grade Level Range:	Kindergarten - 2 nd Grade
Class Size Limit:	20
Course Description:	We use FOSS for Science block. We investigate things such as Weather, Light & Sound, Plants and Animals.

FOSS (Full Option Science System) is a research-based science curriculum for grades K-8 developed at the Lawrence Hall of Science, University of California, Berkeley. FOSS has evolved from a philosophy of teaching and learning that has

guided the development of successful active-learning science curricula for more than 40 years. The FOSS Program bridges research and practice by providing tools and strategies to engage students and teachers in enduring experiences that lead to deeper understanding of the natural and designed worlds.

Science is a creative and analytic enterprise, made active by our human capacity to think. Scientific knowledge advances when scientists observe phenomena, think about how they relate to what is known, test their ideas in logical ways, and generate explanations that integrate the new information into understanding of the natural and designed worlds. Engineers apply that understanding to solve real-world problems. Thus, the scientific enterprise is both what we know (content knowledge) and how we come to know it (science practices). Science is a discovery activity, a process for producing new knowledge.

The best way for students to appreciate the scientific enterprise, learn important scientific and engineering concepts, and develop the ability to think well is to actively participate in scientific practices through their own investigations and analyses. The FOSS Program was created specifically to provide students and teachers with meaningful experiences through engaging with this active participation in scientific practices.

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K-2 Language Arts

Semester:	Yearlong
Day and Block:	Wednesday – Block 1 & 2
Grade Level Range:	Kindergarten - 2 nd Grade
Class Size Limit:	20
Course Description:	This course will provide an integrated approach to reading and writing using thematic units, student’s interests and academic skills and abilities. Students will participate in small guided reading groups, writing projects (using the writing process and a variety of genres), journal writing, and literacy activities such as games, puzzles, and literacy folders.

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K-2 Social Studies

Semester:	Yearlong
Day and Block:	Wednesday – Block 4

Grade Level Range: Kindergarten - 2nd Grade

Class Size Limit: 20

Course Description: We use Storypath Curriculum for our Social Studies block. In particular we concentrate on Community Studies. For Example, we study Families in Their Neighborhoods and Solving Problems in the Park – Developing Young Citizens.

Storypath offers both a structure for organizing the social studies curriculum and an instructional strategy for teaching. The structure is a familiar one: the story. The strategy is grounded in a belief that children learn best when they are active participants in their own learning, and places students' own efforts to understand at the center of the educational enterprise. Together, the structure and the teaching strategy ensure that students feel strongly motivated and have meaningful and memorable learning experiences.

Originally developed in Scotland during the 1960s, Storypath draws support from decades of experience with teachers and students. The approach has its roots in these beliefs about children and learning:

- The world is complex and presents many layers of information. Children know a good deal about how the world works.
- Children have a reservoir of knowledge that is often untapped in classroom settings.
- When children build on that knowledge through activities such as questioning, investigating, and researching, new understandings are acquired.
- Problem solving is a natural and powerful human endeavor. When children are engaged in problem-solving, they take ownership for their learning.
- The story form integrates Common Core literacy standards to help children apply their learning in a meaningful context to gain a deeper, more complex understanding of major concepts.
- When children construct their own knowledge and understanding of their world, their learning is more meaningful and memorable.
- When children research life skills within the context of Storypath, they develop critical thinking skills along with social/emotional learning.

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Grades 3-4

3-4 Math

Semester:	Yearlong
Day and Block:	Monday – Block 1
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	Over the course of the school year, students will engage in a variety of activities to develop mathematic skills, including reasoning, modeling, and computation appropriate for grades 3 through 4. Differentiated instruction will support students in learning math facts and problem-solving. Activities will be hands-on and cooperative. Weekly class session warm-ups support operations and algebraic thinking skills.

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3-4 Art

Semester:	Yearlong
Day and Block:	Monday – Block 2
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	Students will participate in Art lessons based on the Elements and Principles of Design. They will use excellent art materials with an emphasis on process, not product. They will be designing, drawing, painting, printing, carving and using clay. The atmosphere in this class is safe and based on individual expression. Focus will be on appropriate grade level expectations and creative endeavors. There is a \$10 course fee to cover materials.

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3-4 Science

Semester:	Yearlong
Day and Block:	Wednesday – Block 3
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	Students will explore both physical and life sciences through authentic, hands-on experiences. Join others in growing a curiosity, enthusiasm, and the necessary skills for scientific inquiry! Over the course of the year, we will be rotating through a variety of engaging subjects to build knowledge and know-how. We will investigate these units this year: Water and Climate, Motion & Matter, and the Structures of Life!

Follow-up or at-home activities: weekly at home extensions will be provided.

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3-4 Language Arts

Semester:	Yearlong
Day and Block:	Wednesday – Block 1 & 2
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	Students will read, write, discuss, and complete projects using fiction and non-fiction texts of varying lengths. Language study and skill development, including grammar and vocabulary will be part of weekly study. We will continue the best use of the Units of Study curriculum and resources with an emphasis on the Mystery and Character units of study. This class has a \$10 course fee for a Scholastic Magazine.

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3-4 Social Studies – Rainforest

Semester:	Semester 1
Day and Block:	Wednesday – Block 4
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	Discover the wonders of the temperate and tropical rainforests as you climb through their vertical layers. This class will research and create a mural including the plants and animals that live in both the temperate and tropical rainforests. Then, what better way to show what you know by taking a trip to the zoo to compare these vastly different climates?

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3-4 Social Studies – Oregon Trail

Semester:	Semester 2
Day and Block:	Wednesday – Block 4
Grade Level Range:	3 rd – 4 th Grade
Class Size Limit:	20
Course Description:	This will be a hands-on investigation of the Oregon Trail. Students will use a variety of social studies skills including: map reading, map building, and research using physical objects and a variety of texts.

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Grades 5-8

5-6 Math

Semester:	Yearlong
Day and Block:	Tuesday – Block 2
Grade Level Range:	5 th – 6 th Grade
Class Size Limit:	24
Course Description:	In this yearlong class, fifth and sixth grade math students will work through their individual math course based on curriculum selected collaboratively by parent and conferencing teacher. The teacher will be available to assist with difficult topics and support students in their efforts. Students who do not have a selected curriculum will work through the online exercises provided by Khan Academy, in conjunction with Engage NY, at the appropriate grade level.

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5-8 Art

Semester:	Semester 1
Day and Block:	Thursday – Block 3 or 4
Grade Level Range:	5 th – 8 th Grade
Class Size Limit:	18 per block
Course Description:	Students will participate in Art lessons based on the Elements and Principles of Art and Design. They will use excellent art materials with an emphasis on process, not product. They will be designing, drawing, painting, adapting, reflecting and writing. The atmosphere in this class is safe and based on individual expression. Focus will be on appropriate grade level expectations and creative endeavors. This class has a \$10 course fee to cover materials.

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5-6 Science

Semester:	Yearlong
Day and Block:	Tuesday – Block 1
Grade Level Range:	5 th – 6 th Grade
Class Size Limit:	24
Course Description:	This is a course in 5th & 6th grade science. Concepts covered include scientific method, living systems, mixtures & solutions, and an engineering design unit “Junk Box Wars”. The focus is hands on; most in-class time is spent exploring, experimenting and presenting results of research or investigations. Students will participate in the PARADE Science Expo in April. Students will use their Office 365

accounts in class and for homework; homework will be assigned weekly and graded.

Follow-up or at-home activities: 1 to 2 hours of homework each week.

Textbook/Materials needed: access to internet outside of class is needed. Textbooks and most materials will be supplied by PARADE.

Any student costs: Some materials may be needed from home to complete various projects throughout the year.

This class has a \$12 course fee to cover materials.

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5-6 Language Arts

Semester: Yearlong

Day and Block: Thursday – Block 1 & 2

Grade Level Range: 5th – 6th Grade

Class Size Limit: 24

Course Description: Students are invited to develop their love of reading and writing with a collaborative community of peers. This class will provide an integrated approach to reading, listening, speaking, and writing instruction based on thematic units, students' interests, and student's academic skills and abilities. Students will participate in literature groups, quarterly writing projects around the themes using the writing process and a variety of genres, editing skills, journal writing, and develop independence in learning how to be responsible for homework and classroom assignments. Graded reading and writing homework will be assigned each week. The RSD district adopted curriculum Units of Study will be used for both reading and writing instruction.

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5-8 Drama

Semester: Semester 2

Day and Block: Thursday – Block 3 & 4

Grade Level Range: 5th – 6th Grade

Class Size Limit: 18

Course Description: In this Drama/Theatre class students will learn to use their bodies and voices to convey character, setting and emotion. Theatre games, memorization, and team building exercises will be an important part of this course. Collaborative scene work will be the focus of class time with a culminating project due at the end of the semester. PARADE drama has a safe supportive class atmosphere and students with no drama experience are welcome.

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5-6 Technology - MakeCode

Semester: Semester 1

Day and Block: Tuesday – Block 3 or 4

Grade Level Range: 5th – 6th Grade

Class Size Limit: 18 per block

Course Description: Students apply critical thinking skills to solving programming challenges. This course will cover topics such as coding, physical computing, and data. Students create authentic projects and applications and will experience the creativity and problem solving that are an integral part of learning to code. Students will learn from a mix of on-line self-paced activities and projects, and “unplugged” activities. Coding language will vary but could include Scratch, Javascript or Python.

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5-8 Social Studies – World Geography

Semester:	Semester 1
Day and Block:	Tuesday – Block 3 or 4
Grade Level Range:	5th – 8th Grade
Class Size Limit:	18 per block
Course Description:	This class focuses on national and international geography in preparation for the National Geography Bee in January. Student s work at both memorizing and understanding geographic locations, physical geography, and cultural differences around the world and in regions of the US. Through the use of internet resources, mapping activities, research, and games we explore the wide variety of geographic literacy.

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5-8 Social Studies – Ancient Greece

Semester:	Semester 2
Day and Block:	Tuesday – Block 3 or 4
Grade Level Range:	5th – 8th Grade
Class Size Limit:	18 per block
Course Description:	Students will gain exposure to Ancient Greece time period with the purpose of becoming more aware citizens in our culturally diverse world. Learning activities will be hands on, including study in the areas of the arts, innovations of the time, trades, foods, daily life, geography, and governments. Students will be asked participate actively in the creation of art projects, foods, research of topics, presentations to our class, and dramas. Students will be given short weekly assignments. Homework will vary but averages about 1/2 hour per week. Homework will reinforce concepts covered in class. Many materials will be supplied in class. Individual student projects may use materials found or purchased from home.

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5-8 English – Write Your own Magazine

Semester:	Semester 1
Day and Block:	Tuesday – Block 3 or 4
Grade Level Range:	5th – 8th Grade

Class Size Limit: 18 per block

Course Description: Explore the power and creativity of words as you write your own magazine. This class will encourage each writer as we explore the various types of writing included in a magazine. Students will develop their oral, written, and listening skills as they choose their own topic of interest, research this topic to find interesting articles, and compile them altogether in final product. By the end of the semester, students will publish their magazine in digital and/or print format. Students will be asked to spend time each week writing outside of class, so please allow one hour per week for writing time.

Follow-up or at-home activities: Students will be using their Office 365 accounts to manage their writing in class and at home.

Textbook/Materials needed: Access to the internet outside of class will be needed for accessing assignments.

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5-8 Science – Microworlds

Semester: Semester 1

Day and Block: Thursday – Block 3 or 4

Grade Level Range: 5th – 8th Grade

Class Size Limit: 18 per block

Course Description: In Microworlds, students explore magnifiers, learning that tools like lenses and microscopes can be used to extend the sense of sight to view objects in greater detail. By observing everyday objects with a variety of lenses, students will learn to use a microscope, learn the functions of all its parts, and practice proper lighting and focusing techniques. Students will prepare their own slides, view live specimens, and watch how they feed, grow, and multiply, developing a sense of microbial life and interactions among living things and between living things and their environment.

Follow-up or at-home activities: Independent exploration of outside environment, especially aquatic organisms

Textbook/Materials needed: None

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5-8 Physical Fitness – Walk Fit

Semester: Semester 1

Day and Block: Thursday – Block 3 or 4

Grade Level Range: 5th – 8th Grade

Class Size Limit: 18 per block

Course Description: This class explores the many benefits of walking as a form of exercise and fitness. Students will learn the value of physical activity, while also learning its effects on their own health. Students will be keeping track of their activity, as well as their vital signs before, during, and after our walks.

On days that the weather permits, students will be walking the local trails around the Riverview Learning Center, and on days with inclement weather, students will be engaged other activities in the multipurpose room.

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5-8 Technology – Photography

Semester: Semester 2

Day and Block: Thursday – Block 3 & 4

Grade Level Range: 5th – 8th Grade

Class Size Limit: 18 per block

Course Description: Students in this class will explore a variety of techniques for using photography as a way to express themselves. Students will gain experience in the elements of photography as well as the modes of the camera. They will also have an opportunity to work with photo editing software, and learn about organization of photos, printing, and posting their work on the web. Most project work is done in class, however, students are encouraged to practice their new skills at home. Students are welcome to use their own family camera; class cameras will be provided, but many students gain more time on task if they bring their own camera to use.

Follow-up or at-home activities: Students will be using their Office 365 accounts to manage photos in class and at home.

Textbook/Materials needed: Access to the internet outside of class will be needed for accessing assignments. Cameras and most other materials will be supplied in class, however students will benefit from having their own SD card and USB drive for this class. There is a \$10 fee to cover class materials.

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5-8 Science – Journey North

Semester:	Semester 2
Day and Block:	Tuesday – Block 3 or 4
Grade Level Range:	5 th – 8 th Grade
Class Size Limit:	18 per block
Course Description:	Students will join in a global study of wildlife migration and seasonal change as citizen scientists. Students will get to study both local plants and animals, as well as tracking and reporting sightings to a global collection site. This class will be hands on; a project based course integrating math, science, writing, and photography. More on this global project can be found at http://www.learner.org/jnorth/

Follow-up or at-home activities: Students will be on the look out for local changes throughout the semester to participate in collecting sightings to report each week.

Textbook/Materials needed: Access to the internet outside of class will be needed for accessing assignments.

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5-8 Social Studies – Toy Company 3D

Semester:	Semester 2
Day and Block:	Thursday – Block 3 & 4
Grade Level Range:	5 th – 8 th Grade
Class Size Limit:	18 per block
Course Description:	Plunge into the competitive world of toy marketing! In this hands-on interactive class, students will design and build toy prototypes, conduct market research, and compete with their rivals using 21 st century communication skills and 3-D printing technology to enhance and execute their unique designs. Our toy company will launch with a mission statement and culminate with designs chosen for appeal and successful promotion by their student creators. Expect opportunities to use art, technology, writing, and public speaking skills.

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5-8 Science – Microbes in the Kitchen

Semester:	Semester 2
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Day and Block: Tuesday – Block 3 or 4

Grade Level Range: 5th – 8th Grade

Class Size Limit: 18 per block

Course Description: Students will learn about the types of beneficial bacteria, yeast and fungi used to create delicious and interesting foods. They will create food products such as sourdough starter, kombucha, sauerkraut, yogurt, and ginger ale using the microbes that cause fermentation and CO₂ gas production. Students will culture food-producing microbes to study their properties.

Follow-up or at-home activities: 1-2 hours per week outside of class for reading/videos related to the course

Textbook/Materials needed: Online resources and links to articles and videos will be provided via TEAMS.

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Grade 7-8

8 Washington State History

Semester:	Semester 2
Day and Block:	Thursday – Block 1
Grade Level Range:	8th Grade
Class Size Limit:	24
Course Description:	This course guides students through the human activities and relationships that have forged our state’s identity. They will analyze the ways that the many cultural groups of Washington State have developed a vibrant lifestyle and economy. They will explore how ordinary citizens impact the rules that we live by. Studies will include history, economy, geography, government and culture to deepen their understanding of our state. This one semester class meets the high school graduation requirement for one half credit in Washington State History.

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7-8 Math

Semester:	Yearlong
Day and Block:	Tuesday – Block 1 or 2
Grade Level Range:	7th-8th Grade
Class Size Limit:	34
Course Description:	In this yearlong course, students will work through their individual math course based on curriculum selected collaboratively by parent and conferencing teacher. The teacher will be available to assist with difficult topics and support students in their efforts. Students who do not have a selected curriculum will work through the online exercises provided by Khan Academy, in conjunction with Engage NY, at the appropriate grade level.

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7-8 Social Studies

Semester:	Yearlong
Day and Block:	Thursday – Block 1 or 2
Grade Level Range:	7th-8th Grade
Class Size Limit:	34
Course Description:	Students will develop critical thinking skills needed to successfully explore ancient cultures of the America’s during the 1st semester and the western Industrial Age during the 2nd Semester. This class promotes close reading of texts, note-taking, information gathering from a variety of resources, and development of presentation skills. This course will be taught in tandem with the 7-8 ELA course offered year-long.

7-8 Technology - MakeCode

Semester:	Semester 1
Day and Block:	Tuesday – Block 4
Grade Level Range:	7 th -8 th Grade
Class Size Limit:	18
Course Description:	Students apply critical thinking skills to solving programming challenges. This course will cover topics such as coding, physical computing, and data. Students create authentic projects and applications and will experience the creativity and problem solving that are an integral part of learning to code. Students will learn from a mix of on-line self-paced activities and projects, and “unplugged” activities. Coding language will vary but could include Scratch, Javascript or Python.

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7-8 Science

Semester:	Yearlong
Day and Block:	Tuesday – Block 1 or 2
Grade Level Range:	7 th -8 th Grade
Class Size Limit:	34
Course Description:	<p>Students in this 1st Semester lab-based exploration will learn about Earth’s interior and the forces that move the Earth’s crust, the history of crust movement theories, the processes and products of Plate Tectonics.</p> <p>Students in 3rd Quarter Science will complete a STEM Project exploring Oceanography. They will work in teams to complete an investigation with a video product.</p> <p>Newton’s Laws, Work, and Simple Machines will be studied during 4th Quarter in a lab-based unit.</p> <p>Follow-up or at-home activities: 4-5 hours of homework each week.</p> <p>This class has a \$12 course fee to cover materials.</p>

7-8 Language Arts

Semester:	Yearlong
Day and Block:	Thursday Blocks 1 or 2
Grade Level Range:	7 th – 8 th Grade
Course Description:	Language Arts class for 7 th and 8 th graders in PARADE is a combination of a traditional English class and a Humanities course. Students will read, write,

discuss, create, and present on a different topic for each 8th week quarter. 2019 – 2020 themes are: Industrialization of the 1850's, Ancient Americas, Personification/Fantasy in Literature, and Graphic Novels. The goal is for students to increase reading and writing fluency and end the year at grade level in both. Students will have weekly homework, approximately 45 minutes a day, and are expected to come to class prepared. Students may be asked to check books out from the library to support the learning that takes place in class.

Class Size limit: 34

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High School

HS World Literature

Semester: Yearlong

Day and Block: Monday – Block 1

Credit: .5 English

Grade Level Range: High School

Class Size Limit: 30

Course Description: This high school graduation required class focuses on the literature of the periods we are studying in Social Studies. The first semester literature will come from 3500 BCE to 1750 CE and reflect the developments of Mediterranean and European cultures during the period. Second semester selections will come from the past 300 years and focus on the development of thought and society. Students will practice writing and speaking in multiple genres and for various audiences. Strong pre-college skills and creativity are emphasized.

Students have significant weekly assignments to prepare for the following week's class due.

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HS Modern World History

Semester: Yearlong

Day and Block: Monday – Block 2

Credit: .5 World History

Grade Level Range: High School

Class Size Limit: 30

Course Description: This history/social science course examines the major turning points of the modern world from approximately 1750 to the present. Components of this class include: Historical Linkage, the French Revolution, the Industrial Revolution, the Rise of Imperialism and Colonialism, World War I, Totalitarianism, World War II and Nationalism. Students should develop and understanding of the historic as well as the contemporary geographic, social, political and economic consequences of the various areas and problems they review.

Students have significant weekly assignments to prepare for the following week's class.

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HS Art

Semester: Semester 2
Day and Block: Wednesday – Block 4
Credit: .5 Fine Arts

Grade Level Range: High School

Class Size Limit: 30

Course Description: Students will participate in Art lessons based on the Elements and Principles of Design. They will use excellent art materials with an emphasis on process not product. They will be designing, drawing, painting, printing, carving and using clay. As an advanced high school class, students will be expected use their time wisely and create a portfolio of outstanding finished projects. My goal is to expose the student to a variety of mediums and to challenge them to try new things. Homework is a big part of this for credit class. Students will have an art notebook that goes home and comes to school each week. This class has a \$10 course fee to cover materials.

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HS Drama

Semester: Semester 1
Day and Block: Wednesday – Block 3 and 4
Credit: .5

Grade Level Range: High School

Class Size Limit: 30

Course Description: In this Drama/Theatre class, students will continue to learn to use their bodies and voices to convey character, setting and emotion with a culminating production at the end of the semester. A student may enroll in this class if they have had some drama experience.

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HS Algebra I

Semester: Yearlong
Day and Block: Wednesday – Block 3
Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 24

Course Description: Yearlong course in Algebra introduces linear, exponential, quadratic and rational functions. Topics include properties of real numbers, linear equations, systems of linear equations and inequalities, exponents, quadratic functions, polynomials and factoring. Concepts are developed through graphs, diagrams and symbolic manipulation. In class activities and lectures support student learning at home. Students will be assessed via homework completion, quizzes and tests. Students will be given weekly assignments. Homework will vary but averages about 5-7 hours per week. Homework will include textbook reading, reinforcement of concepts via online videos and resources, and completion of homework problems.

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HS Bridge to College Math

Semester: Yearlong

Day and Block: Monday – Block 4

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 20

Course Description: This senior-level course curriculum emphasizes modeling with mathematics and the Standards for Mathematical Practice found within Washington K-12 Mathematics Learning Standards (the Common Core State Standards, CCSS-M). Topics include building and interpreting functions (linear, quadratic & exponential), writing, solving and reasoning with equations and inequalities, and summarizing, representing, and interpreting data. The course is designed to focus on building conceptual understanding, reasoning and mathematical skills and provides students engaging mathematics that builds flexible thinking and a growth mindset. For seniors who are successful in this course (B or better), the Bridge to College Mathematics course offers guaranteed placement into a college-level course when entering college directly after high school.

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HS Algebra II

Semester: Yearlong

Day and Block: Wednesday – Block 1

Credit: .5/Semester

Cedars Code:

Grade Level Range: High School

Class Size Limit: 24

Course Description: Yearlong course in Algebra 2 continuing to develop concepts in linear, exponential, quadratic and rational functions, trigonometry. Topics also include statistical data analysis, sequences and series, trigonometry, and probability models. Concepts are developed through graphs, diagrams and symbolic manipulation. In class activities

and lectures support student learning at home. Students will be assessed via homework completion, quizzes and tests. Students will be given weekly assignments. Homework will vary but averages about 5-7 hours per week. Homework will include textbook reading, reinforcement of concepts via online videos and resources, and completion of homework problems.

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HS Geometry

Semester: Yearlong

Day and Block: Wednesday – Block 2

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 20

Course Description: Yearlong course in Geometry. Topics include: deductive and inductive reasoning, analyzing mathematical rules using algebraic proofs, proving geometric theorems involving parallel and perpendicular lines and congruent angles. Students also explore properties of triangles, proving triangle congruence and similarity, and the Pythagorean Theorem. Students use properties of polygons to classify, find perimeter and area, and to prove theorems regarding special parallelograms. Similarity and congruence of two- and three-dimensional figures, transformational geometry, right triangle geometry and trigonometry are also covered. Concepts are developed through graphs, diagrams and symbolic manipulation. In class activities and lectures support student learning at home. Students will be assessed via homework completion, quizzes and tests. Students will be given weekly assignments. Homework will vary but averages about 5-7 hours per week. Homework will include textbook reading, reinforcement of concepts via online videos and resources, and completion of homework problems.

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HS PreCalculus

Semester: Yearlong

Day and Block: Monday – Block 4

Credit: .5/Semester

Cedars Code:

Grade Level Range: High School

Class Size Limit: 24

Course Description: Precalculus is a comprehensive course that weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of

equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Within each Precalculus lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills in a low-stakes problem set before moving on to formal assessment. Additionally, connections are made throughout the Precalculus course to calculus, art, history, and a variety of other fields related to mathematics.

This course is partially online. You must have passed Algebra 2 with a C or better to enroll.

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HS Walk Fit

Semester: Semester 1

Day and Block: Monday – Block 4

Credit: .5

Grade Level Range: High School

Class Size Limit: 30

Course Description: This class explores the many benefits of walking as a form of exercise and fitness. Students will learn the value of physical activity, while also learning its effects on their own health. Students will be keeping track of their activity, as well as their vital signs before, during, and after our walks.

On days that the weather permits, students will be walking the local trails around the Riverview Learning Center, and on days with inclement weather, students will be engaged in other activities in the multipurpose room.

There is a \$17.00 fee for this course which covers the cost of a pedometer that students will be able to keep. Outside of class, students will engage in physical activity of their choice 3 to 4 hours per week.

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HS Environmental Science

Semester: Yearlong

Day and Block: Thursday – Block 1 & 2

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 30

Course Description: Environmental science is the study of patterns and processes in the natural world and their modification by human activity. To understand current environmental problems, we need to consider physical, biological and chemical processes that are often the basis of those problems. This course will give you the skills necessary to address the environmental issues we are facing today by examining scientific principles and the application of those principles to natural systems. This course will survey some of the many environmental science topics at an introductory level, ultimately considering the sustainability of human activities on the planet. Environmental impacts on Earth come from the number of people and the amount and types of resources that they use. By applying scientific principles and considering real-world examples, we will examine:

- The field of environmental science and how to think like an environmental scientist
- The human population and the ways in which changes in the population affect the environment
- Agriculture, soils and the environmental implications of eating meat, vegetables, local, organic, sustainable, industrial and other types of food
- Non-renewable fossil fuels with a focus on coal, petroleum and natural gas and the benefits and consequences of using each
- Renewable fuels such as wind and solar and identify that even renewable “green” energy sources have impacts as well as benefits
- Biodiversity and global change, which are the integrating units of environmental science

\$10 Course fee to cover materials

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HS Photography

Semester: Semester 1 / Semester 2

Day and Block: Semester 1: Monday – Block 3 – or Semester 2: Monday – Block 2

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 30

Course Description: This course provides students an opportunity to learn the basics of good photography: composition, lighting, creative angles, etc. Students shoot with a digital camera. Students will learn about various composition elements. Students learn about f/stops, shutter speeds, depth of field, and also have practice in digital file management on a network. Students will be introduced to Adobe Photoshop C2. Photo assignments include many of the classic themes: portraits, landscapes, architecture, action, animals, animals, and photo essay. Photoshop projects will be assigned throughout the semester. Students will also work in groups on a still photo movie using Windows Movie Maker or comparable Office 365 software. Students need to supply their own digital camera to use off-site. DSLR (Digital Single Lens Reflex) cameras are ideal; some DSLR's will be available for students to use on campus. This class has a \$10 course fee to cover materials.

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HS Intro to Computer Science

Semester: Semester 1 or Semester 2

Day and Block: Thursday – Block 4

Credit: .5

Grade Level Range: High School

Class Size Limit: 20

Course Description: This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for development solutions that can scale up from small, simple problems to large, complex problems.

By the end of this course, students will be able to:

- Design and implement computer-based solutions to problems.
- Use and implement commonly used algorithms and data structures.
- Develop and select appropriate algorithms and data structures to solve new problems.
- Write solutions fluently an object-oriented paradigm
- Write, run, test and debug solutions in the Java programming language
- Read and understand programs consisting of several classes and interacting objects
- Read and understand a description of the design and development process
- Understand the ethical and social implications of computer use.

Amazon has funded access to the Edhesive curriculum for our school, which will be used for this course

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HS Advanced Computer Science

Semester: Semester 1 or Semester 2

Day and Block: Thursday – Block 4

Credit: .5

Grade Level Range: High School

Class Size Limit: 30

Course Description: This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for development solutions that can scale up from small, simple problems to large, complex problems.

By the end of this course, students will be able to:

- Design and implement computer-based solutions to problems.
- Use and implement commonly used algorithms and data structures.
- Develop and select appropriate algorithms and data structures to solve new problems.
- Write solutions fluently an object-oriented paradigm
- Write, run, test and debug solutions in the Java programming language
- Read and understand programs consisting of several classes and interacting objects
- Read and understand a description of the design and development process
- Understand the ethical and social implications of computer use.

Amazon has funded access to the Edhesive curriculum for our school, which will be used for this course

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HS Learning Lab

Semester: Semester 1 or 2

Day and Block: Monday – Block 1, 2, 3 or 4
Wednesday – Block 2 (Semester 1) or Block 4
Thursday – Block 4

Credit: None

Grade Level Range: High School

Class Size Limit: 30

Course Description: This is a supervised opportunity for high school students to focus on school work and get help where needed. This class is attendance only – no credit is awarded.

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HS Math Lab

Semester: Yearlong

Day and Block: Thursday – Block 3

Credit: None

Grade Level Range: High School

Class Size Limit: 36

Course Description: This class is required for all students taking Algebra I, Geometry, Algebra II, or an APEX math course. It is an extension of the math classes listed above, and is a time designed to provide group work time, assistance with homework, and assessment opportunities.

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HS Technology A

Semester: Semester 1

Day and Block: Monday – Block 2

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 30

Course Description: Students will use Office 365 and other cloud-based software to explore current events in Technology as well as the issues surrounding the United Nations Sustainable Development Goals. Emphasis during quarter one will be on digital citizenship, and individual and collaboration skills; during quarter two, students will choose a Technology Interest Project in an area of their own interest. This individualized project will guide them through designing a learning plan, finding a mentor. Students will complete their TIP plan with a presentation of project/skills learned at the end of the semester. Past TIP projects have included coding, Photoshop tutorials, sound editing and video production.

Materials will be supplied for quarter one; TIP Projects may require purchase of more materials depending on the student's choice of study. This course will require 3 hours of homework per week.

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HS Technology B

Semester: Semester 2

Day and Block: Monday – Block 3

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 30

Course Description: Students will use Office 365 and other cloud-based software to explore current events in Technology as well as the issues surrounding the United Nations Sustainable Development Goals. Emphasis during quarter one will be on digital citizenship, and individual and collaboration skills; during quarter two, students will choose a Technology Interest Project in an area of their own interest. This individualized project will guide them through designing a learning plan, finding a mentor. Students will complete their TIP plan with a presentation of project/skills learned at the end of the semester. Past TIP projects have included coding, Photoshop tutorials, sound editing and video production.

Materials will be supplied for quarter one; TIP Projects may require purchase of more materials depending on the student's choice of study. This course will require 3 hours of homework per week.

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HS Health

Semester: Semester 2

Day and Block: Wednesday – Block 3

Credit: .5/Semester

Grade Level Range: High School

Class Size Limit: 30

Course Description: During this one semester graduation requirement course, students will: comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health-promoting products and services; demonstrate the ability to practice health-enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health.

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