## Curriculum

| Advanced Math | Add, subtract, multiply and divide complex fractions <br> Measurement and geometry-parallel lines cut by a transversal, volume of 3D prisms and cylinders, <br> surface area of 3D shapes, constructions, distance between points, similar triangles, congruent angles, <br> degrees in regular polygon, Pythagorean Theorem <br> Mastery of ratio and proportion-scale drawings in circumference, perimeter and area. Inverse <br> proportional equations (direct variation equations) <br> Solve linear equations in one and two variables-variables on both sides, graphing linear equations, <br> slopes, Cartesian plan, properties of equality <br> Data analysis-mean, median and mode. Charts and graphs, statistics and display data and probability |
| :--- | :--- |
| Art | Ceramic slab box - American artists before 1875 <br> Printmaking - linoleum block <br> Water color techniques |
| Library | Locate, retrieve, and interpret information for classroom research projects <br> Conduct computer on-line research |
| Listening | Cite evidence from literature and infer themes <br> Respond to peers in small group discussions and activities - Evaluate peer presentations |
| Math | Geometry-area and perimeter of polygons/circles, volume of 3D prisms and cylinders, surface area of <br> 3D shapes, degrees of a triangle <br> Introduction to ratio and proportion-scale drawings. Similar shapes and objects. <br> Master of percent problems <br> Introduction to probability <br> Master of negative numbers, integers, and rules of integers <br> Solve linear equations in one variable (multi-step) <br> Properties of equality <br> Rational vs. irrational numbers <br> Introduction to square roots, squares (Pythagorean Theorem) <br> All operations with fractions <br> Data analysis <br> Charts and graphs |
| Social Studies | Develop further understanding of the five musical concepts <br> Compose within various musical forms <br> Study the importance of music in film <br> Dramatize short stories/scenes <br> Opportunity to sing in chorus |
| Reading | Passing games, use kicking, striking, throwing to optimally pass the ball for a scoring opportunity <br> Anticipate an opponent's movements on offense and counteract them defensively <br> Anticipate an opponent's movements on defense and counteract them offensively |
| Science | Trace American ideals from the Colonial era through Reconstruction <br> Demonstrate understanding of geography's effect on the early development of the United States <br> Analyze primary sources to give insight into the issues of the era |
| C levels in common juices, explore the placement of your nerves, and more |  |

# The Pen Ryn School 7th Grade Curriculum 

| Spanish | School day and schedules <br> What choices we make to maintain health-foods and exercise <br> Activities in and out of school <br> Conjugating present tense verbs - Sentence structure; parts of speech <br> Holidays and music <br> Likes and dislikes |
| :--- | :--- |
| Speaking | Communicate through visual representation (i.e. graphic organizers, multimedia presentations and <br> performances) |
| Technology | Design and build a Glogster "virtual" poster that highlights their knowledge of The Civil War or The <br> American Revolution <br> Understand and use Microsoft Office Suite software efficiently and appropriately |
| Writing | Explore criteria for effective writing in different genres including research and apply them writing <br> Emphasize revision process including organization of content and choice of specific, powerful language <br> Experiment with leads based on audience and purpose |

