

## Kirkland Junior High School Course Requirements

All students are required to complete the requirements shown on the following chart:

Subject	7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	9 <sup>th</sup> Grade	Number of Years
Language Arts	1	1	1	3
Social Studies	1	1	1	3
Math	1	1	1	3
Science	1	1	1	3
Physical Education	.5	.5	.5	1.5
Elective	.5	.5	.5	1.5
Elective	.5	.5	.5	1.5
Elective	.5	.5	.5	1.5

### 8<sup>th</sup> GRADE REQUIRED COURSES 2009-2010

#### **EIGHTH GRADE LANGUAGE ARTS /U.S. HISTORY / WA STATE HISTORY INTEGRATED BLOCK GRADE EIGHT: FULL YEAR (TWO SEMESTERS)**

Eighth grade social studies will explore American history from 1877 to the present, as well as Washington State history. Students will examine major movements in the United States history, and will look to the Evergreen State as a case study for the social and historical implications of those movements. Washington State history is a required course to graduate from high school in the State of Washington. As a result, each student must pass Social Studies in order to graduate from high school, and their grade will be present on their high school transcript as well. As in seventh grade, the history curriculum is supported and enriched with works of biography, historical fiction, and a variety of primary source materials. Students will complete a minimum of three major literature studies, drawing from such titles as *Animal farm*, *The Diary of Anne Frank*, and *To Kill A Mockingbird*. Students will also be reading a compilation of short stories and non-fiction excerpts related to themes of industrialization, westward movement, and immigration in the late 1800s. Four major, multi-paragraph writings will be completed, with at least one of these requiring library or Internet research. Vocabulary, grammar, and the conventions of language continue to be taught and applied. Honors credit is available by arrangement with the individual teacher.

## **HONORS EIGHTH GRADE LANGUAGE ARTS/U.S. HISTORY/WA STATE HISTORY INTEGRATED BLOCK**

GRADE EIGHT: FULL YEAR (TWO SEMESTERS)

**Prerequisite:** First consideration will be given to students who have earned a challenge designation in seventh grade LA/SS, with high standardized test scores, and teacher recommendation.

Students in this class follow the same general curriculum as the regular eighth grade block, but in a more intense and challenging format. The content of this class will be driven by the history curriculum: American history from 1877 to the present, as well as Washington State history. Washington State history is a required course to graduate from high school in the State of Washington. As a result, each student must pass Social Studies in order to graduate from high school, and their grade will be present on their high school transcript as well. Students will complete a minimum of three major literature studies, drawing from such titles as *Animal farm*, *The Diary of Anne Frank*, and *To Kill A Mockingbird*. Students will also be reading a compilation of short stories and non-fiction excerpts related to themes of industrialization, westward movement, and immigration in the late 1800s. Explanatory and persuasive essay formats will be emphasized, and all writing will require in-depth analysis, synthesis and evaluation of material. A minimum of four major, multi-paragraph writings will be completed, with at least one of these requiring library or Internet research. Vocabulary, grammar, and the conventions of language will be taught and applied throughout the year. Students will have several opportunities to develop creative projects reflecting their understanding and application of historical and literary themes. Community service may also be required.

## **MATHEMATICS**

The Kirkland Junior High math curriculum is comprised of the following courses: Connected Math 7, Safety Net 7, 8, and 9, Connected Math 8, Discovering Algebra, Discovering Geometry, and Discovering Advanced Algebra. These courses are consistent with the Lake Washington School District adopted curriculum and align with LWSU Curriculum Frameworks document and the Washington State Essential Academic Learning Requirements. Math is sequential and mastery of basic skills and concepts are essential to success in the next course. Consequently, appropriate placement is important for success and is determined by multiple measures including: previous math course, state test scores, and teacher recommendation.

**NOTE:** All Lake Washington Junior High mathematics courses are designed to teach and assess: 1) reading and writing of mathematical materials, procedures and explanations, (including: reading and understanding directions, labeling all answer appropriately, and showing all work); 2) analyzing, displaying, reading, and interpreting data sets using graphs, charts, tables, and equations, 3) responding to short answer and extended response questions using WASL-like scoring guides, 4) and using calculators appropriate for each course.

### **8th GRADE CONNECTED MATH FULL YEAR (2 SEMESTERS)**

This course covers the topics listed below. Students continue to grow in their knowledge of mathematics using the strategies and concepts learned in the previous two years. Units will cover: Functions: linear and other functions; Pythagorean Theorem: right triangles, slope, area

and irrational numbers; Exponential Growth: graphing and writing exponential functions; Quadratic Growth: graphing, writing and solving quadratic functions; Symbolic Expressions: simplifying expressions and solving more complicated linear equations; Transformational Geometry: symmetries and their relationship to algebraic properties; Statistics: gathering data from samples to make predictions about populations. In addition, students will be expected to develop appropriate reading and study skills in mathematics. Homework may be up to thirty minutes per day. *Each student needs to have their own scientific calculator (TI-30)*

In order to move into Geometry (as a 9<sup>th</sup> grader) at the end of this course a student needs to meet the following criteria; 1) grades of A or B on unit tests in CMP8, 2) demonstrate consistent high quality work on homework assignments, 3) pass district/school end of course exam, 4) earn a proficient score on state WASL test (Level 3 or 4).

### **DISCOVERING GEOMETRY FULL YEAR (2 SEMESTERS)**

**Prerequisite:** *Discovering Geometry* provides an opportunity for students to explore geometric relationships with a wide variety of tools, including compasses, computers, and graphing calculators. Students perform constructions, measure figures, observe patterns, discuss their findings, write their own definitions, and formulate and prove geometric conjectures. Topics include properties of triangles, polygons, circles, transformations and tessellations, area and volume, the Pythagorean Theorem, congruence and similarity. Students should expect up to forty minutes of homework per day to reinforce the skills and concepts taught in class. *Students will best be served if they have access to a TI-84 calculator at home.*

### **SAFETY NET 8 FULL YEAR (2 SEMESTERS)**

Students will be placed in this support class based on WASL test scores. This course is designed to support students in their regularly scheduled Connected Math Program (CMP) 8 course. It supports the student following the district adopted curriculum of CMP 8 and uses supplementary materials to further develop math concepts presented. Students will need to have a scientific calculator.

## ***SCIENCE***

**INTEGRATED SCIENCE II GRADE 8: 2 SEMESTERS (TWO SEMESTERS)** This inquiry-modular-based science course builds on Physical, Earth and Life Science concepts and processes introduced in grades K-7. Physical, Earth and Life Science are investigated with increasing depth where students plan and conduct their own procedures, devise their own data tables, analyze and communicate results they obtain. The Physical Science module, **Properties of Matter**, focuses on physical and chemical properties that characterize matter helping students to develop their understanding for the properties of matter. The Earth Science module, **Earth in Space**, develops an understanding for the relationships among the sun-earth-moon system. The Life Science module, **Human Body Systems**, helps students clarify what they already know about their body and through a series of inquiry-based activities understand their body and the systems that keep it alive and healthy by investigating: the Digestive system, the Respiratory and Circulatory System and the Musculo-skeletal system. The process skills emphasized include measurement, lab safety procedures, experimental design, data gathering, error analysis, representation of data, and communication of results. Through hands-on lab activities, class discussion, individual and

group projects and activities, students investigate science topics relevant to their own lives and build understandings for the Washington State Science Essential Academic Learning Requirements.

**INTEGRATED SCIENCE III- GRADES 8, 9: FULL YEAR (2 SEMESTERS)** 9th grade Conceptual Physical Science: Physics, Chemistry, Earth Science and Astronomy

**Prerequisite:** 9th grade students: Standard path. 8th grade students: Requires teacher recommendation, successful completion of 7th Grade Math with an “A”, and an “A” in 7th grade science, and a signed letter of understanding and acknowledgement for appropriate placement available from your Science teacher.

Conceptual Physical Science is a year-long inquiry-based **High School level** lab science class focused on exploring chemistry, physics, earth science, and astronomy. The emphasis for physics is on qualitative analysis helping students to understand concepts and differentiating among scientific ideas. Chemistry focuses on the foundational concepts of the structure of the atom and the organization of the periodic table of the elements and introduces the basics of chemical reactions. Earth science uses the geological concepts of plate tectonics and the structure of the Earth to understand the geological phenomena particular to the Pacific Northwest. We then expand from the earth to the universe, looking at its origins, size, and contents, such as stars, galaxies, black holes, supernovae, and neutron stars. Students read, write and use technology to gather and process scientific information from a wide range of print and electronic sources. Students communicate their understanding through the following forms of writing: procedure, explanation, and lab reports. Specific writing instruction emphasizes proper methods for formulating hypotheses, collecting and analyzing data, and writing conclusions.

## ***PHYSICAL EDUCATION***

Physical Education is designed to promote a level of fitness and appreciation for our physical potential. Physical Education classes are designed on a co-ed basis with activities taught in three-week units. At some time during the three years, each student will be exposed to as many sports and activities as we can possibly provide.

### **PHYSICAL EDUCATION**

**GRADES 8, 9: HALF YEAR (1 SEMESTER)**

Physical Education is a one semester class in which effort, positive attitude, sportsmanship, and cooperation are taught through participation in team and individual sports. Specific Health topics will also be covered on an every other day basis during our weight training/ body conditioning unit. Each student’s grade will reflect his/her ability to meet specific individual goals and corresponding point values. This method of evaluation allows each student to have control of his/her grade regardless of physical ability. 8th and 9th grade P.E. includes the following: Flag Football, Weight Training/Body Conditioning, Soccer, Badminton, Basketball, Frisbee, Pickle Ball, Archery, Volleyball, and Table Tennis. Students are required to dress appropriately and participate in class each day. The required uniform includes a KJH Physical Education T-shirt (which can be purchased from the ASB window in the main office for \$5.00 each), shorts, socks, and tennis or athletic shoes. Students are provided a combination lock and basket to secure

clothing. All personal belongings should be clearly marked for identification. Special athletic equipment is provided by the school.

## ***SPECIAL EDUCATION***

In order to sign up for Special Education courses a student must currently be on an Individualized Education Plan (IEP), and be identified with a learning disability or handicapping condition in any of the following areas- Language Arts, Reading, Written Language, and or Math. These courses will follow the general education curriculum with modifications and adaptations.

### **SPECIAL EDUCATION LANGUAGE ARTS /READING**

Grade 7, 8, 9: Full Year (2 SEMESTERS)

**\*FOR STUDENTS CURRENTLY ON AN IEP\***

**Prerequisite:** Must be on an IEP, and identified with a learning disability or handicapping condition in the area of reading and written language. The course will follow the general education curriculum with modifications and adaptations. The class uses various programs that aid in increasing vocabulary, comprehension, and reading fluency. In addition, this course takes students through the writing process using the six traits of writing. Students will focus on the organization and conventions of their writing.

### **SPECIAL EDUCATION WRITING**

Grade 7, 8, 9: Full Year (2 SEMESTERS)

**\*FOR STUDENTS CURRENTLY ON AN IEP\***

**Prerequisite:** Must be on an IEP, and identified with a learning disability or handicapping condition in the area of written language. Using the step -up- to writing approach, the class will analyze writing tasks, break these into small steps, teach the steps one at a time, and provide practice to become proficient writers.

### **SPECIAL EDUCATION MATH**

Grade 7, 8, 9: Full Year (2 SEMESTERS)

**\*FOR STUDENTS CURRENTLY ON AN IEP\***

**Prerequisite:** Must be on an IEP, and identified with a learning disability or handicapping condition in the area of Math. The curriculum focuses on fundamental calculation and reasoning as well as problem solving concepts, skills and strategies.