Get Your Classes here

ENROLLING NOW IN 2017-2018 CLASSES

The Virtual Advantage

**Flexibility** – attend live class online or in person at the Learning center.

**Support** – Taught by highly-qualified credentialed teacher **AND** free in-person tutoring available in multiple locations

**Collaboration** – students have the opportunity to work together and to get to know their peers in real time

**Current and accredited** – activities and problems meet up to date standards and pacing to ensure that students are adequately prepared for future courses and for standardized tests. CP courses meet UC/CSU requirements for admission.

**Transparent** – Parents are included in all student communications and in some courses, given the opportunity to evaluate student daily work while weening student off of dependence on parent instruction. Classes are recorded so that students and parents may refer back to any lesson on their own time. Timelines, assignments, worksheets are given in advance so that families can plan their homework schedules.

**Tools** – Technology tools provided (noise-cancelling headset with microphone, writing tablet input device, laptop with camera –if needed). Textbooks and other tools provided as well.

**Time** – Most classes meet 2 days per week for 80-minutes (virtual attendance required) and have up to 1 hour of homework (study/practice time) on non-class school days. *CP science classes are a little bit longer to accommodate wet-labs required for CP credit.

- Note: Schedules are tentative and may be adjusted to cohort needs in order to meet the 5 student minimum

**Cost** – 225 educational units* per semester (450 per year) course apportioned from discretionary budgets includes direct instruction and teacher feedback/grading, designated tutoring hours & locations throughout school boundaries, use of technology tools (listed above), use of texts & other materials required for course (including science lab kits for science classes). Note: Due to grants, PLTW will have a lower fee structure TBD.

Virtual Boot Camp

Held in multiple locations in August, these 1-day workshops will introduce students to their new equipment and teachers. In addition to meeting some of their classmates in person, Students will learn:

- Computer maintenance procedures
- Use of tech. tools
- How to create, save, and share google files
- How to access programs and info for each course
- Organization & note-taking strategies
- Electronic communication norms
- How to play with hands-on manipulatives and other tools from your course

If you are signing up for a virtual class, you will be able to

- Sign out equipment, texts, and other supplies
- Get access codes and experiment with online tools

If you are thinking about signing up for a virtual class, you will be able to get the details, try it out, and plan for equipment collection later.

**No cost**

Times & locations to be sent out in July

RSVP required to ensure sufficient materials at each location

**Math Field Trip parties**

We are planning a couple of special in-person events this year as part of each course this year. These will be interactive, instructive, fun social events in honor of our WASC guests.

**Remote Science Labs**

More information to follow as plans develop.

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Want More Virtual Offerings?

Discuss interests with your homeroom teacher now while plans are still being formulated.
<table>
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<th>Course</th>
<th>Description</th>
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| **MSS C1** | The virtual 6th-grade* integrated science course and included laboratory investigations are aligned to NGSS. Six units of study will include: Scientific Method; Space Systems; History of Earth; Earth's Systems; Weather & Climate; Human Impacts. Students will receive lab kits for labs lead by the teacher, observe teacher demonstrations, and participate in hands-on labs. Support materials include: Virtual Hardware (computer, headset, writing tablet), Google Suite, CK-12, PhET, and Gizmos®.  
Virtual Class Held: Tues/Thurs; 11am-12:30pm |
| **MSS C2** | The virtual 7th-grade* integrated science course and included laboratory investigations are aligned to NGSS. Six units of study will include: Scientific Method; Structure, Function, & Information Processing; Growth, Development, & Reproduction of Organisms; Matter & Energy in Organisms & Ecosystems; Interdependent Relationships in Ecosystems; and Natural Selection & Adaptations. Students will receive lab kits for labs lead by the teacher, observe teacher demonstrations, and participate in hands-on labs. Support materials include: Virtual Hardware (computer, headset, writing tablet), Google Suite, CK-12, PhET, and Gizmos®.  
Prerequisite: Attend Virtual Boot Camp & Use Google Suite  
Virtual Class Held: Tues/Thurs; 9:30am-11am |
| **MSS C3** | The virtual 8th-grade* integrated science course and included laboratory investigations are aligned to NGSS. Six units of study will include: Scientific Method; Structure of Matter; Chemical Reactions; Forces & Interactions; Energy; and Waves & Electromagnetic Radiation. Students will receive lab kits for labs lead by the teacher, observe teacher demonstrations, and participate in hands-on labs. Support materials include: Virtual Hardware (computer, headset, writing tablet), Google Suite, CK-12, PhET, & Gizmos®.  
Prerequisite: Attend Virtual Boot Camp & Use Google Suite  
Virtual Class Held: Tues/Thurs; 1pm-2:30pm |

**CP Biology**  
The A-G approved Biology course and included laboratory investigations are aligned to NGSS. Seven units of study will include: Scientific Method; Interdependent Relationships in Ecosystems; Natural Selection & Evolution; Earth & Human Activity; Structure & Function; Matter & Energy in Organisms & Ecosystems; Inheritance & Variation of Traits. Students will receive Science lab kits for hands-on labs lead by the teacher, observe teacher demonstrations, and participate in wet labs. Scientific practices will be developed using observation, experimentation, modeling, analysis of evidence, and systematic processes based on logical thinking. Inquiry skills at this level include organization and mathematical analysis of data, manipulation of variables in experiments, & identification of sources of experimental error. Support materials include: Virtual Hardware (computer, headset, writing tablet), Google Suite, CK-12, PhET, and Gizmos®.  
Prerequisites: Must be 9th grade or older. Attend Virtual Boot Camp, MS Science 3 or equivalent, and Algebra 1 or Integrated Math 1 (may be taken concurrently)  
Virtual Class Held: Wed/Fri; 9:30am-11:30am |

**Chemistry CP**  
The A-G approved Chemistry course and included laboratory investigations are aligned to NGSS. Six units of study will include: Scientific Method; Structure & Properties of Matter; Chemical Reactions; Forces & Interactions; Energy; Waves & Electromagnetic Radiation. Students will receive Science lab kits for hands-on labs lead by the teacher, observe teacher demonstrations, and participate in wet labs. Scientific practices will be developed using observation, experimentation, modeling, analysis of evidence, and systematic processes based on logical thinking. Inquiry skills at this level include organization and mathematical analysis of data, manipulation of variables in experiments, & identification of sources of experimental error. Support materials include: Virtual Hardware (computer, headset, writing tablet), Google Suite, CK-12, PhET, and Gizmos®.  
Prerequisites: Must be 9th grade or older. Attend Virtual Boot Camp, CP Biology, and Algebra 1 or Integrated Math 1  
Virtual Class Held: Wed/Fri; 12pm-2pm |

**PLTW- Launch**  
PLTW Launch provides a transformative learning experience for K-5 students. The project-based aspects of PLTW give students a chance to identify a problem, apply their knowledge, and develop unique solutions to lead their own learning. When students understand how their education is relevant to their lives and future careers, they get excited, and that is why PLTW students are successful.  
Cost: TBD  
Class Held: TBD
MATH COURSE OFFERING

MSM c1
An integrated middle school math class for 5th & 6th grade students using Singapore Math in Focus curriculum and focused on 6th grade math standards. 1st semester will cover understanding of positive and negative numbers, operations on fractions and percents, an introduction to square and cube roots, ratios, and algebraic expressions. 2nd semester will continue an exploration of algebraic equations and simple inequalities and points on the coordinate plane before moving into the geometric concepts of area, circles, surface area, and volume, concluding with an introduction into statistics. Students entering this course need to know how to add, subtract, multiply, and divide whole multi-digit numbers fluently. Minimum 218 RIT score recommended.

Classes meet: Wed./ Fri. 9:30-11 am

MSM c2
An integrated middle school math class for 6th-8th grade students using Singapore Math in Focus curriculum focused on 7th grade math standards to prepare students for the higher level of thinking required in High School College prep classes. 1st semester will cover operations on integers, conceptual understanding of rational and irrational numbers, operations on algebraic expressions and solving multi-step algebraic equations and inequalities and direct and inverse relationships. 2nd semester will cover angle relationships, geometric constructions, volume & surface area of solids, and probability statistics. Students entering this course need to know how to add, subtract, multiply, and divide fractions and decimal numbers proficiently. Minimum 223 RIT score recommended.

Classes meet: Tue./Thu. 1-2:30 pm

MSM c3
An integrated middle school math class for 7th & 8th grade students, building on skills learned in MSM course 2 using Singapore Math in Focus curriculum focused on 7th grade math standards to prepare students for the higher level of thinking required in High School College prep classes. 1st semester will cover properties of exponents, scientific notation, solving, writing, graphing and interpreting linear equations, an introduction to systems of equations, and into to functions. 2nd semester starts with Pythagorean theorem, moves through a review of volume and surface area, introduces geometric transformations, and finishes with an exploration of frequency tables and lines of fit. Students entering this course should have passed MSM course 2 or equivalent, have strong skills with fractions, decimals, integers, and at least basic understanding of solving 1-2 step equations and using formulas.

Classes meet: Tue./Thu. 2:30-4 pm

CP Integrated Math 1
A college prep course that integrates Algebra and Geometry concepts. 8th grade and up, students cover the concepts of solving and graphing linear equations, inequalities, and systems of equations and inequalities. Understanding that there are different types of functions and patterns to represent different situations, students explore real-life problems, including geometric and statistic problems. Students are introduced to the basic tools of geometry, including basic transformations of figures. Students explain their processes logically to build a foundation for formal proofs. This course meets the CA Algebra graduation requirement and is approved for UC A-G requirements. Students should have strong Pre-Algebra skills to ensure success. Minimum 230 RIT score recommended.

Classes meet: Tue./Thur. 9:30-11 am

CP Integrated Math 2
A continuation of Integrated 1 CP, this college prep course also integrates Algebra and Geometry concepts. 9th grade and up, students cover the concepts of solving and graphing non-linear equations and inequalities, particularly quadratic equations. Students take a deeper look at different types of functions and patterns to represent different situations in real-life problems, including geometric and statistic based problems. Students expand their understanding of geometric proofs and transformations, exploring properties of quadrilaterals, triangle trigonometry, and circles to build and solve equations. This course is approved for UC A-G requirements.

Prerequisite: Students must have successfully completed Integrated Math 1 or Algebra 1 CP (4th semester Geometry recommended).

Classes meet: Tue./Thur. 11am-12:30

CP Integrated Math 3
The last in the CP Integrated Math series, this college prep course also integrates Algebra, Geometry, and Statistics concepts. Students take a deeper look at different types of functions including polynomial, rational, radical, exponential, logarithmic, and trigonometric functions as well as geometric, circle, and trig. proofs. All concepts will include real-life problems that emphasize the student's reasoning and decision making process in preparation for higher level math such as Calculus or college statistics. This course meets UC A-G requirements.

Prerequisite: Students must have successfully completed Integrated Math 2 or Algebra 1 CP and Geometry CP.

Classes meet: TBD
Presented by PCI instructor.
SB389
All 9th grade students are required to take a math placement test at the beginning of school year to determine appropriate math level. Our school uses the NWEA for this purpose.

Integrated Math 1 (2-year non-CP pace) part 1 of 4, part 2 of 4
For 9th – 10th grade ONLY, this course covers the same topics of CP Integrated 1 – 1st semester at a slower pace with additional supplemental practice with pre-requisite skills. Algebra graduation requirement is only met once the student has completed 2nd year (part 4 of 4) of this 2-year course, but each semester does count as math. * Minimum 219 RIT score recommended.
Classes meet: TBD
Presented by PCI instructor.

Integrated Math 1 (2-year non-CP pace) part 3 of 4, part 4 of 4
For 10th grade and up ONLY, this course covers the same topics of CP Integrated 1 - 2nd semester at a slower pace with additional supplemental practice with pre-requisite skills. Algebra graduation requirement is only met once the student has completed 2nd year (part 4 of 4) of this 2-year course, but each semester does count as math. Students entering part 3 must have passed part 2 of 4 or Algebra.
Classes meet: TBD
Presented by PCI instructor.

Integrated Math skills
For 9th & 10th grade ONLY, this course introduces topics of 1st semester of Integrated math 1 – with significant support and practice with pre-requisite skills. This class does not meet Algebra graduation requirement but each semester does count as math. This course is designed for high school students with a RIT score lower than 219.
Classes meet: TBD
Presented by PCI instructor.

Pre-Calculus
Using the Holt text, students will expand their understanding of functions including graphing and solving linear and polynomial functions, trigonometric, logarithmic, and exponential functions, and basic conic sections including circles, ellipses, hyperbolas, and parabolas. This course includes a full semester of trigonometry to prepare students for the rigor of calculus and a solid understanding of sequences and series to prepare students for more advanced statistics. In order to be successful in this course, students are expected to have mastered the following skills in their previous courses (Algebra 2 or Integrated math 3): Neatly and accurately sketch graphs of points, lines, and parabolas; solve for a given variable in a formula or equation, including linear, absolute value, and quadratic; basic manipulation of logarithmic and exponential functions; general knowledge of polynomial expressions & basic Euclidean geometric properties, express logical thought process in writing.
Classes meet: TBD
Presented by PCI instructor.

Calculus
Calculus is a widely-applied area of mathematics and involves a beautiful intrinsic theory. This course is the first step in a new branch of mathematics, beyond an extension of what you have learned before. Since passing the AP exam, earns college credit for this course, material will be presented with the same level of depth and rigor as entry-level college calculus courses. Topics to be covered using the Larson text include: Limits & Continuity of functions, the definition of the derivative & differentiation of functions, applications of the derivative, techniques of antidifferentiation, and applications of the definite integral. In order to be successful in this course, students are expected to have mastered the following skills in their previous courses: neatly and accurately sketch graphs of functions, including linear, polynomial, rational, exponential, trigonometric, inverse trigonometric, and piecewise; be familiar with the properties and algebra of functions, and understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and so on); strong understanding of the algebraic techniques to solve for a given variable in a formula or equation, including linear, absolute value, square root, exponential, logarithmic, and polynomial; know the values of the trigonometric functions and be able to use identities to manipulate trig functions; be able to recognize similarities in diverse problems and apply techniques to new situations (creativity); express logical thought process in writing.
Classes meet: TBD
Presented by PCI instructor.

Real Life Math
As an alternative for those students who need an extra year of math or elective, we offer this project-based class that gives students and opportunity to apply their math skills to real life obligations. Each unit will include a significant project and a set of math assignments to prepare for that project.
Classes meet: TBD
Presented by PCI instructor.

Want More Virtual Offerings?
How about a CP English class where you can discuss lit. with your distant friends in real time and get feedback on your writings?
Discuss interests with your homeroom teacher now while plans are still being formulated.