

Physical Science and Technology

Dan Bregar and Adam Kirsch

Contact Information

dan.bregar@corvallis.k12.or.us and adam.kirsch@corvallis.k12.or.us
541-757-4541 (Dan Bregar's classroom); 541-757-4540 (Adam Kirsch's classroom)
<http://web.csd509j.net/cvhs/bregar>

Course Description

Physical Science and Technology is a class that is designed to allow students to learn to use technological tools, design and build principles, and physical science concepts. Students will use computers, electronic instruments, wood and metal working tools, recording equipment, and chemical tests to examine the physical and chemical properties of the world around them. This class is team taught by both instructors.

Course Standards

This course is designed to address the following Next Generation Science Standards: HS-PS2-1, HS-PS2-2, HS-PS2-3, HS-PS3-3. We also address the following Common Core Math Standards: N-Q-1, N-Q-2, N-Q-3, N-VM-1, N-VM-3, A-SSE-1, A-CED-2, A-CED-3, A-CED-4, A-REI-3, A-REI-10, F-IF-4, F-IF-6, F-LE-1, F-LE-5, G-MG-1, G-MG-3, S-ID-1, S-ID-2, S-ID-3, S-ID-6, S-ID-7, S-ID-8, S-ID-9. Finally, we address the following Engineering Standards (taken from the Arizona CTE standards): 1.0, 2.0, 3.1, 3.2, 3.3, 3.4, 4.1, 4.4, 4.5, 5.1, 6.1, 6.4

Instructional Activities

Students should expect to spend time exploring the content through hands-on activities, lectures, readings, participating in laboratory experiments, working on group projects, and experiencing the nature of science through their own inquiry.

Grading and Assessment

Oregon House Bill 2220 requires student grades be calculated from summative assessments – examples include tests, labs, speeches, projects, or other measures *of* student learning. Coursework intended as practice *for* learning may be assigned and recorded in Pinnacle with a 0% weight – examples include in-class assignments, homework, participation, and other learning activities. Students who do not complete all required assessments (or the equivalent additional opportunities) will receive no credit for the course. Pinnacle updates will be provided on at least a weekly basis.

Late work will not be accepted unless a deadline extension is obtained from the instructor BEFORE the day an assignment is due. Missing assignments and assessments will be entered as “missing” and will initially be treated as a zero in the gradebook. Students who miss a deadline will be given an alternative assignment to allow them to demonstrate proficiency for the standard(s) in question. The alternative make-up assignment will typically be more involved and will require more self-direction on the part of the student. It is therefore in the student's best interest to do everything he/she can to meet all course deadlines. When completed, the score for the alternative assignment will replace the zero for the missing assignment.

Re-Assessment

All missing work (including assignments recorded with a 0% weight) will be required to be completed before additional opportunities to meet standards are offered. These additional opportunities may take the form of test questions, lab activities, or individual presentations. Scores from additional work will be averaged with the initial assessment scores. Within the last two weeks of each semester there will be no additional opportunities offered for previous assessments.

Plagiarism Policy

The Plagiarism Policy will be followed in this course. Please see the student planner for details of this policy.

Tardy Policy

PST will begin promptly each day; please be prepared and ready to learn at the start of each period.

Attendance Policy

Absences should be kept to a minimum. It is very difficult to keep up with the content covered in this course without being present for lectures, labs, and class activities. Chronic attendance issues will result in an attendance contract. All absences must be excused through the attendance office by a parent or guardian within 48 hours. After that, your absence is considered unexcused.

Students missing class due to absences will, in most cases, be granted extensions equal to the number of days missed. For instance, a student who misses one day of school will be given a one-day extension. However, when students are gone multiple days, it is best for the student to come discuss due dates with the instructor. Extended due dates beyond the 1-for-1 described here must be agreed upon between the student and the instructor immediately upon the student's return to school.

Personal Electronics Policy

The Personal Electronics Policy for Crescent Valley High School will be followed in this course. Please see the student handbook/planner for details of this policy. Personal electronic devices used without permission in the class are subject to confiscation as described in the planner.

Classroom Behavior Expectations

We expect all students to help me maintain a positive, supportive learning environment. Please be respectful to yourselves and to others. All students will be required to sign and abide by the attached class safety contract below.

STUDENTS AND PARENTS: Please read and sign the attached safety contract. This contract is due in class at the end of the third week of school. Students who have not returned the signed safety contract will not be allowed into the Materials Lab.

PST Class Safety Contract- The student agrees to:

1. Respect the ideas, rights, and differences of all other individuals at all times and in all activities.
2. Keep the class environments safe places by respecting the rights, property, and differences of others. Horseplay or harassment of others will result in disciplinary action.
3. Work cooperatively and productively within small groups and participate in class activities.
4. Notify an instructor before leaving the classroom (or other location) for any reason. If attendance is taken and you are not physically present and have not informed the instructor that you left you will be counted absent.
5. FOLLOW ALL SAFETY PROCEDURES. THERE ARE NO EXCEPTIONS. Safety glasses must be worn at all times in the Materials Lab and elsewhere when working with materials with either hand or power tools. You will have the opportunity to purchase your own pair for \$2.00 or you may provide your own. Students will be given instruction for safe operation of power equipment and other activities in the lab. Students not working in a safe manner will be referred for disciplinary action.
6. Refrain from the use of profanity.
7. Remain on task at all times. It will be assumed, by the instructor, that the student is making daily progress on assignments and projects. Those who cannot work in class without constant socialization or interrupting others will be referred for disciplinary action.
8. Monitor his/her status in the class by regularly checking the online grade book. This will be an essential activity. It is the student who is ultimately responsible for insuring completion of all assignments and course requirements by the end of the class. Parents are asked to check their student's progress via the online grade book. Students are to provide username and password information to parents.
9. Follow all CVHS rules and policies including those regarding cheating and plagiarizing.
10. Treat all facilities with respect and care at all times. Any student found vandalizing tools, equipment or the projects of others will be automatically dropped from the class.
11. Utilize on-line and web-based materials in appropriate manners. **By signing this contract, parents grant their students permission to utilize the Internet for class-related activities unless the instructors receive additional written notification indicating otherwise from the student's parents.**
12. Being occasionally photographed and/or videotaped for purposes of the class. **By signing this contract, parents grant their students permission to be photographed for class-related activities unless the instructors receive additional written notification indicating otherwise from the student's parents.**
13. Ask for extensions or opportunities for proficiencies as outlined above in this syllabus.
14. Abide by all appropriate teacher requests pertaining to the class including arriving to class on time.
15. Try his or her best. Seek help when needed.

Disciplinary Plan

Step 1: Written warning. Parents notified. Administration notified.

Step 2: Referral to administration for action. Parent conference before returning to class.

Step 3: Dropped from class.

NOTE: It is the teacher's responsibility to provide a safe and productive learning environment. A student may be immediately and permanently removed from the class if his/her behaviors cause the teacher to believe the safety of that student, or others, may be compromised.

Student Name _____ (printed neatly)

I have read the Course Syllabus and safety contract for PST and understand what is expected of me in this course.

I have read the Course Syllabus and safety contract for PST and understand what is expected of my student in this course.

Student Signature

Date

Parent/Guardian Signature

Date

Parents: we would appreciate it if you would write your e-mail address and phone number below so we can contact you if necessary.