

Crook County School District

where students dream, learn, & succeed



<u>School:</u> Crook County High School		<u>Instructor:</u> Zach Smith
<u>Course:</u> Physical Science A&B		<u>Email:</u> zach.smith@crookcountyschools.org
☐	Trimester #1	<u>Phone:</u> (541) 416-6900 ext. 3147
☐	Trimester #2	<u>Methods for Communicating with Families:</u> 1) Email 2) Phone call before or after school
☐	Trimester #3	

Course Description:

This class is designed to provide students with the opportunity to gain a richer understanding of the forces that govern the natural world. We will be investigating: How science happens, Physics topics, Chemistry topics, and Earth Science topics. In addition, you will be expected to demonstrate understanding through experiments, projects, presentations and other assignments. My Goals for you are...

- a) Think critically- problem solve and ask questions
- b) Communicate effectively- verbally and written
- c) Quantify- collect and use data to analyze and make conclusions
- d) Collaborate- work effectively with others
- e) Be a self-directed learner recognize a task and develop a solution

Learning Standards/Targets:

- Physical Science A
 - The metric system and the scientific method
 - Students will gain an understanding of metric prefixes and conversions
 - Students will learn how to apply scientific practices
 - Students will engage in and apply data collection and analysis techniques
 - One dimensional motion
 - **HS-PS2-2 Motion and Stability: Forces and Interactions**
 - **HS-PS2-3 Motion and Stability: Forces and Interactions**
 - Students will gain an understanding of how speed, velocity and acceleration contribute to the motion of an object
 - Students will be able to compute speed, velocity, and acceleration
 - Students will be able to compute speed, velocity, and acceleration Newton's laws
 - **HS-PS2-1 Motion and Stability: Forces and Interactions**
 - **HS-PS2-4 Motion and Stability: Forces and Interactions**
 - Student will learn how Newton's laws of motion affect the motion of an object
 - Students will be able to explain how forces contribute to the direction and

- motion of an object
- Simple Machines
 - **HS-PS2-3 Motion and Stability: Forces and Interactions**
 - Students will gain an understanding of the 6 basic simple machines and how they work and can be used to make work easier
- Thermodynamics
 - **HS-PS3-4 Energy**
 - Students will gain an understanding of how thermal energy is transferred
- Physical Science B
 - Waves
 - **HS-PS4-1 Waves and their Applications in Technologies for Information Transfer**
 - **HS-PS4-4 Waves and their Applications in Technologies for Information Transfer**
 - Students will develop and use models to explain how energy is transferred through waves
 - Students will compute waves speed, frequency, and wavelength
 - Static Electricity
 - **HS-PS3-5 Energy**
 - Students will develop an understanding of how electricity is transferred
 - Students will learn how to construct simple circuits
 - Students will gain an understanding of how electric fields are generated
 - Magnetism
 - **HS-PS2-5 Motion and Stability: Forces and Interactions**
 - **HS-PS3-5 Energy**
 - **HS-PS3-3 Energy**
 - Students will learn the relationship between electricity and magnetism
 - Students will develop models of electrical energy being converted to magnetic fields and vice versa
 - Students will develop a model of various magnetic fields
 - Chemistry
 - **HS-ESS1-1 Earth's Place in the Universe**
 - **HS-ESS1-3 Earth's Place in the Universe**
 - Students will gain an understanding of what makes one atom different from another
 - Students will Learn how the periodic table is organize and develop a model that follows periodic law
 - Students will Gain an understanding of how new atoms of an element are produced in stars through the process of hydrogen fusion
 - Earth Science
 - **HS-ESS1-5 Earth's Place in the Universe**
 - **HS-ESS2-5 Earth's Systems**
 - **HS-ESS3-2 Earth and Human Activity**
 - Students will develop models of Earth's structure

- Students will Gain an understanding of how surface features on the earth are developed
- Students will gain an understanding of climate change causes and solutions

Instructional Materials:

- Inspire Physical Science copyright 2021 McGraw-Hill Education

All Instructional Materials must comply with CCSD School Board [Policy IIA](#) & [Policy IIA-AR](#). A copy of core and supplemental curriculum will be available in the curriculum office for review.

A classroom teacher receiving a complaint regarding instructional materials shall try to resolve the issue informally through the discussion of the original assignment or the opportunity for an alternative assignment.

Notification of the Right to Object to the Use of Material:

Any resident of the district may raise objection to instructional materials used in the district's educational program despite the fact that the individuals selecting such materials were duly qualified to make the selection and followed the proper procedure and observed the criteria for selecting such material.

The first step in expressing objection to materials is consultation with the classroom teacher or library staff and providing a written complaint. The district official or staff member initially receiving a complaint shall explain to the complainant the district's selection procedure, criteria and qualifications of those persons selecting the material. A classroom teacher receiving a complaint regarding instructional materials shall try to resolve the issue informally through the discussion of the original assignment or the opportunity for an alternative assignment. The materials shall remain in use unless removed through the procedure in section 4. F. (2) of this regulation.

The teacher or library staff receiving the initial complaint shall advise the principal of the initial contact within 24 hours, whether or not the complainant has apparently been satisfied by the initial contact. A written record of the contract shall be maintained by the principal and sent to the superintendent's office.

In the event that the person making an objection to material is not satisfied with the initial explanation or an alternative assignment, the person raising the questions will meet with a building administrator who will provide a Request for Reconsideration form.

For more details, see [CCSD School Board Policy IIA-AR](#).

Citizenship, Classroom Rules, Behavior Expectations:

- *The Board expects student conduct to contribute to a productive learning climate. Students shall comply with the district's policies, administrative regulations, school and classroom written rules, pursue the prescribed course of study, submit to the lawful authority of teachers and school officials and conduct themselves in an orderly manner during the school day and during district-sponsored activities.*

Careful attention shall be given to procedures and methods whereby fairness and consistency without bias in discipline shall be assured to each student. The objectives of disciplining any student must be to help the student develop a positive attitude toward self-discipline, realize the responsibility of one's actions and maintain a productive learning environment.

- *See [CCSD Board Policy JFC](#) for more details.*

Classroom Rules:

1. Respect the ideas, rights, and differences of all other individuals at all times and in all activities
2. Bring any materials you need for class (paper/ Pencils/ **INB**)
3. Attend class daily- be on time
4. Try your best. Seek help when needed (seeking help does not mean you are not trying your best)
5. Water only in class

Grading System:

- *The district's grading system shall be based on Board-adopted course content and is designed to enable the student and parent to clearly know how well the student is achieving course requirements at the student's current grade level or course content level, and be based on the student's progress toward mastery of a continuum of knowledge and skills outlined in Oregon State Standards. Absenteeism or misconduct shall not be the sole criterion for the reduction of students' grades. Behavioral performance shall be reported separately. The district will use letter grades (A,B,C,D,F) that can be converted into a 4 to 0 reporting system in grades 6-12. All AP courses are graded on a 5.0 grading scale.*
- *Grades will be based on many factors, such as: basic instructional assignments, both oral and written; results from various assessment instruments, including critical content short cycle assessments as well as quizzes and exams; class participation; special assignments; research; activities of various types of kinds and special contributions.*
- See CCSD School Board [Policy IKA](#), [Policy IK](#), & [Policy IK-AR](#) for more details.

Grading Scale:

- A+: 100-98 A: 97-93 A-: 92-90
- B+: 89-88 B: 87-83 B-: 82-80
- C+: 79-78 C: 77-73 C-: 72-70
- D+: 69-68 D: 67-63 D-: 60-62
- F: 59-0

Course Grading Criteria/Weighting

- Assessment, Projects, Quizzes, Assessments of Learning Standards: 80%
- Daily Homework, Practice Assignments & Labs : 20%

**[Policy IK-AR](#): Achievement of learning standards will be assessed separately from behavior.*

Make Up Policy:

- 1) **Assessment Retakes:** [Policy IK-AR](#) Teachers will provide students with multiple opportunities to demonstrate mastery of each standard. Students will be provided with at least two opportunities to retake assessments. A student who retakes an assessment will not be penalized. Teachers can modify assessments (more rigorous to account for greater time allowed for preparation.) Teachers will determine student requirements for assessment retakes that align with Policy IK-AR.
- 2) **Homework/Daily Work:** Achievement of learning standards will be assessed separately from behavior (i.e. attendance, disruption, late work, tardiness, preparation, effort, attitude, etc.). Teachers may set guidelines around submission timelines, as this category is tied to learning progress, please refer to policy IK-AR.

Additional Course Information:

Lab Safety: During labs students must follow all safety procedures. Students will wear aprons and goggles when instructed to and will be held accountable for any irresponsible actions. No horseplay is allowed in my Lab.

Attendance:

Attendance is mandatory and is crucial to your success. You'll miss out on labs and discussions, which have no reasonable substitute. If you miss a lab or project it is your responsibility to get it made up or you will lose the credit.

Homework:

Homework is rarely assigned in this class however if students do not complete assignments during class time then students may be expected to finish the assignments at home as homework. All assignments may be turned in before the due date.

Extra Help:

If you need extra help or you missed a lab then you may schedule a time to come in using my email. Either in the mornings during teacher prep or during ELO period on Wednesdays are usually the best time to come .

Notebook: Your student will need a spiral notebook for this class

Please sign and return your Syllabus. Parents/Guardians if you have any questions or concerns please contact your student's teacher.

Student Name: _____ Date: _____

Parent Name: _____ Date: _____

Parent Signature: _____