

Learning Plan Document for Off-Site Course Description and WINGS

Grade Level	High School
Class Title	Physical Science
Subject	Physics
Class Description	<p>Physical Science is a lab intensive course that provides students with fundamental knowledge of physics principles and their applications to engineering and design.</p> <p>This course focuses on concepts and principles that explain many naturally occurring events in the world. Students will develop strong problem solving skills as they build an understanding of motion, forces, acceleration, energy, rotation, and gravity.</p> <p>Topics covered include: Science, Technology, and Society; Motion, Acceleration, and Forces; The Laws of Motion; Energy; Work and Machines; Heat and States of Matter; Waves; Sound and Light; Electricity; Magnetism; Electromagnetic Radiation; Energy Sources; Classification of Matter; Properties of Atoms and the Periodic Table; Chemical Bonds; Chemical Reactions; Solutions, Acids, and Bases; Nuclear Changes.</p> <p>This class meets the graduation requirement for the State of Washington and Kennewick School District and meets at least one Common Core Standard. This course is a [semester/year] long course. Students who successfully complete the course have the potential to earn [.5/1.0 ] credit.</p> <p>The estimated offsite hours estimated for this class are 5 hours per week.</p>
Learning Materials	<p>“Physical Science with Earth Science” Glencoe Science ISBN: 978-0-07-880248-5</p> <p>Off-Site courses can include on-line products such as APEX. Apex is a complete course. A computer and internet connection is needed on a regular basis to be able to do the work. Other off site course materials use district adopted materials.</p>
Learning Goals/Performance Objectives	<p>The content of this course is based on the Washington state Science Learning Standards, also known as the “Next Generation Science Standards”.</p> <p>Upon completion of this course students will be knowledgeable and proficient in the following areas: Structure &amp; Properties of Matter; Chemical Reactions; Forces &amp; Interactions; Energy; Waves &amp; Electromagnetic Radiation; and Engineering Design.</p> <p>A team of certificated teachers who are highly qualified in this subject matter has reviewed this WSLP.</p>
Learning Activities	<p>Learning activities for this course include, but are not limited to: Individual and group laboratory experiments &amp; challenges, class presentations, research, class discussions, lecture, offsite homework, volunteering in the community, and field trips.</p>
Progress Criteria/Methods of Evaluation	<p>{ Student Name } will complete weekly assignments, offsite work, lab experiments, weekly to biweekly assessments, write research papers, collaborate in a group with other students, and be able to apply knowledge of physics to real world engineering and design.</p> <p>Weekly and monthly assessments will be completed by the consultant/certified teacher. Monthly Progress will be marked satisfactory or unsatisfactory based on the</p>

professional judgment of the certified teacher using parent input, work samples, and monthly assessments for the off-site course work.

Final Grading: Course grades are weighted towards summative tests in the courses.

90-100 A [93-100=4.0, 90-92=3.7]

89-80 B [B+ 87-89=3.3, B 83-86 = 3.0, B- 80-82=2.7]

79-70 C [C+ 77-79=2.3, C 73-76=2.0 C-70-72=1.7]

67-69 D+

60 - 66 D

Below 60 = NC no credit for failing course

Online courses for a proficient passing grade may vary according to course completion. Your APEX/Aleks and off site HQ will work to establish norms per on line product.