

APEX Physical Science 9

Class Description:

This class meets the graduation requirement for the State of Washington and Kennewick School District.

Physical Science offers a focused curriculum designed around the understanding of critical physical science concepts, including the nature and structure of matter, the characteristics of energy, and the mastery of critical scientific skills. Topics include an introduction to kinematics, including gravity and two-dimensional motion; force; momentum; waves; electricity; atoms; the Periodic Table of Elements; molecular bonding; chemical reactivity; gases; and an introduction to nuclear energy. Teacher-graded labs encourage students to apply the scientific method.

The content is based on the National Science Teachers Association (NSTA) standards and is aligned to state standards.

Learning Materials:

APEX is a complete curriculum, other than a computer a student does not need any additional materials.

Learning Goals:

The content is based on the National Science Teachers Association (NSTA) standards and is aligned to state standards. This course meets a graduation requirement and meets at least one GLE and/or EALR.

Learning Activities:

Student will complete Study, Discussion, Activity and a Quiz for each section in a unit and then will complete a unit exam. Activities are based on a student earning a min. of 70% or better in each activity.

Evaluation:

On each month's progress reports, student will report completion and mastery of learning activities designed to reach specific goals within the course description.

In addition, students will keep portfolios of their written work, quizzes, and tests to show their consultants and/or HQ teachers.

Every month progress will be determined by the HQ teacher of this course based on the question: "Will the student master his performance objectives by the end of the course?" The HQ teacher will take into consideration ALL factors (including student life situation, effort, attitude, etc.) when making this professional judgment.

Each month, the student will be expected to master approximately 10% of the yearly goals for this class (or 20% of semester goals), with all of the goals being met by the end of the year (or semester.) The mastery of any one goal may be an on-going process and some goals may overlap or be difficult to measure. Evaluation of progress toward the mastery of the goals will be based on monthly completion (or progress toward completion) of the learning activities that are designed to provide the means to achieving the goals of the learning plan. With that said, monthly progress can still be marked satisfactory based on the professional judgment of the teacher that the student will complete the goals of the course.