

Physical Science (E) – Credit Recovery

COURSE DESCRIPTION:

Physical science is the introductory course to high school science courses and beyond. Students will expand on their middle science experiences to prepare them for biology, chemistry, and physics. This course will emphasize scientific thinking as a way of understanding the natural phenomenon that surrounds us. In this regard there will be numerous opportunities to dialog with other students about scientific theory and practice. In addition, there will be both simulated and real world laboratory experiences to further expand your scientific horizons.

COURSE OBJECTIVES:

Upon completion of this course students will be conversant in a number of scientific topics, understand how science is used in our daily lives, and be comfortable with solving simple algebraic equations that support scientific laws.

This course has been specifically built with the credit recovery student in mind. The course content has been appropriately grouped into smaller topics to increase retention and expand opportunities for assessment. With each topic, diagnostic quizzes are presented to the student, allowing students to pass through areas of content that they have previously studied successfully. Post-topic quizzes are presented with each topic of content. Audio readings are included with every portion of content, allowing auditory learners the opportunity to engage with the course. Test pools and randomized test questions are utilized in pre- and post-topic quizzes as well as unit exams, ensuring that students taking the course will not be presented with the same exams.

The ELL version of the course includes additional practice activities (such as cloze activities), as well as pre-topic vocabulary lists, that introduce key vocabulary in English and in Spanish.

PREREQUISITES: None

COURSE LENGTH: Two semesters

REQUIRED TEXT: None

COURSE OUTLINE:

Semester 1

- Introduction to physical science
- Energy and motion
- Newton's laws
- Energy
- Simple machines
- Waves
- Electricity

Semester 2

- Matter
- Atomic structure and periodic table
- Chemical bonds
- Elements and their properties
- Interaction of matter

(E) = ELL – Assistive Content Included in this Course