Science 9 – Matter and Energy - Course Syllabus

Description:
This course prepares students for chemistry and physics through the foundational principles taught in Science 9: Matter and Energy. Start out with scientific measurements and the different forms of matter and graduate into the foundations of chemical reactions and properties of magnets and electricity. With proofs for Creation, section and chapter reviews, and over 500 pictures, charts, and graphs, students will be able to smoothly transition into chemistry from this study of Science: Matter and Energy.

Textbook: Science: Matter and Energy (A Beka – Code 202258)

Course objectives:

- Understand basic topics of Physical Science including: Matter, Energy, Heat, Motion, Forces, Waves, Sound, Light, Electrostatics, Magnetism, and Electronics.
- Show understanding of material through written assignments, quizzes, and final exam.

Contents:

Semester A

Chapter 1 – Introduction to Physical Science
Chapter 2 – Measuring Matter
Chapter 3 – States of Matter
Chapter 4 – Energy
Chapter 5 – Heat
Chapter 6 – Foundations of Chemistry
Chapter 7 – Molecules and Chemistry
Chapter 8 – Chemistry in Action
Chapter 9 – Science vs. Evolution

Semester B

Chapter 10 – Motion and Forces
Chapter 11 – Waves and Sound
Chapter 12 – Light and Color
Chapter 13 – Electrostatics
Chapter 14 – Magnetism
Chapter 15 – Electricity
Chapter 16 – Electronics

Grading Scale

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = under 59%

Grade Weighting

Quizzes…….. 35%
Written Assignments... 35%
Final Exam……... 30%
100%