

Science 8

Curriculum:

This course will be an introduction to Physical Science. Throughout the year we will be exploring and examining the forces and materials that form the Earth and the Environment. Students will be given the opportunity to investigate the behavior of matter through individual laboratory investigation. The curriculum will be divided into three distinct units of study.

- Earth Materials and Processes
 1. Minerals, Mineral Identification and uses of Minerals.
 2. Rocks, the Rock Cycle, Igneous Rocks, Metamorphic Rocks, Sedimentary Rocks.
 3. Earth's Energy and Mineral Resources
 4. The Theory of Plate Tectonics, Continental Drift.

- Motion, Forces and Energy
 1. What is Motion? Acceleration, Momentum
 2. Newton's First, Second and Third Laws
 3. Forces and Fluids, Pressure, Buoyancy
 4. Work and Simple Machines

- Chemistry
 1. Atomic Structure and Chemical Bonds
 2. Chemical Reactions
 3. Substances, Mixtures, and Solubility

Grading:

You will be graded on your success in the following areas:

- Class work/Participation
- Lab Work
- Completion of Homework
- Tests and Quizzes

Student Responsibilities:

You are expected to bring the materials that you will need to class with you. Be prepared to work and ask questions when you need help. Show the respect to other students and people in the classroom that you expect for yourself.