

HBHS Science Curriculum Trajectory

Course:

General Science with Earth Science

Units of study:

Essential Physical Science Skills, Motion, Forces, Work, Energy, Power, Space, Classification, Atoms, Periodic Table, Bonds, Reactions, Earth Science

Course Description:

This is a physical science course for students who may require assistance with reading scientific information, organization, math and study skills. Topics include the structure of atoms, simple chemical reactions, household chemistry, motion, environmental problems, energy, and earth science topics. Students also learn basic laboratory procedures. This course is a fundamental class and is designed to meet the physical science requirement.

Course Standards: Students will be able to:

- Demonstrate the 4th C standards (creativity, communication, critical thinking, and collaboration)
- Use the scientific method, engineering practices and inquiry based learning and describe those findings in a lab report
- Collect, graph and interpret data from an inquiry based experiment
- Use formulas to describe the motion of objects
- Use Newton's laws to describe motion
- Describe energy and its role in work and power
- Understand the role of gravity in planet & moon orbit
- Classify matter
- Describe the structure of an atom
- Describe bonding and chemical reactions
- Compare types of rock and their formation