

Welcome to 6th grade Earth and Space Science!

This course covers Earth and Space sciences while introducing concepts in chemistry, physics, and life sciences. Our text book is *Earth Space*, published by Glencoe/McGraw Hill. We will use other resources to supplement the information in the textbook.

Course Outline:

1 st Semester	2 nd Semester
<p>Unit 1: The Nature of Science Scientific method, lab safety, branches of science</p> <p>Unit 2: Measurement Scientific measurement; Metric system</p> <p>Unit 3: Matter Atoms and their structure; The Periodic Table</p> <p>Unit 4: Properties and Change Physical and chemical properties; physical and chemical changes; phases of matter; acids and bases</p> <p>Unit 5: Structure of the Earth Physical layers, chemical layers, continental drift, plate boundaries</p> <p>Unit 6: Earthquakes and Volcanoes Types of volcanoes, structures of volcanoes, earthquake waves, earthquake scales</p> <p>Unit 7: Rocks and Minerals Mineral groups, mineral identification, types of rocks, the rock cycle</p> <p>Unit 8: Weathering and Soils Physical and chemical weathering, erosions, types of soils, soil conservation</p>	<p>Unit 9: Geological Time Units of time, relative dating, radiometric dating, fossils, extinctions</p> <p>Unit 10: The Hydrosphere The Water Cycle, freshwater systems, water conservation</p> <p>Unit 11: Oceans Ocean currents, ocean chemistry, waves and tides</p> <p>Unit 12: Atmosphere Layers of the atmosphere, prevailing winds, chemical makeup of the atmosphere</p> <p>Unit 13: Weather Air masses, frontal boundaries, cloud types, station models</p> <p>Unit 14: Climate Climate zones, climate events, climate changes</p> <p>Unit 15: The Solar System Planet structures, planetary motion, the moon, small objects, historical views</p>

Required Materials:

Each student is required to bring the Ft. Clarke planner, pens (blue or black only) or pencils, a 3 ring binder or a folder (with prongs) and paper. The binder or folder will serve as the student notebook. Notebooks will be used for journaling, note taking, and as a student portfolio. Table of Contents, notes, handouts, and quizzes and tests will be kept in a systematic order. A ruler and colored pencils will also be used throughout the year.

Grading:

Classwork: 35%	Classwork will include warm ups, vocabulary, cooperative group assignments, worksheets, planner checks, etc.
Homework: 10%	Homework is designed to reinforce concepts taught in the classroom, and will be assigned two to three times a week. As part of the homework grade, students may present a current event article.
Notebooks: 10%	Students will be required to maintain a notebook containing class notes, homework, handouts, etc. Notebooks will be periodically checked and graded periodically. Students will be required to maintain a table of contents. A rubric will be displayed in the classroom and posted online.
Projects: 10%	Each nine weeks, students will be required to complete a project. The first semester projects will entail science fair.
Tests/Quizzes: 35%	Each unit will end with a test. Questions are drawn from assignments, labs, and notes. Quizzes will be given as short assessments throughout each unit.

Late Work Policy:

There are due dates and there are deadlines. Sometimes a due date and a deadline may be the same date. If work is turned in after the due date, but before the deadline, the work will be accepted and given a reduced grade. If work is turned in after the deadline, the work will be considered as missing.

Extra Help and Absences:

Students can arrange for additional help before school, during lunch, and after school. Students are responsible for making up any missed assignments.

Online Resources:

Discovery Education: <http://www.discoveryeducation.com/>

FCAT Explorer: <http://www.fcatexplorer.com/>

Sunshine State Standards: <http://www.floridastandards.org/Standards/FLStandardSearch.aspx>

Communication:

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