

Southern Regional High School
Manahawkin, New Jersey

Course Syllabus

Department: Science

Course: Science Seminar I

Marking Period 1

Topics/Units to be covered:

- Classroom Expectations/Grading
- Laboratory Safety
- Essential laboratory equipment.
- The effect of seasonal weather patterns.
- How to track and predict storms.
- The components of the hydrologic cycle
- Quarterly

Marking Period 2

Topics/Units to be covered:

- The importance of a universal system of measurement
- Tectonic plate movement.
- The effect of revolution, rotation and tilt.
- The layers of the atmosphere
- Quarterly

Marking Period 3

Topics/Units to be covered:

- Cells are made of complex molecules that consist mostly of a few elements.
- There is a relationship between the organization of cells into tissues and the organization of tissues into organs.
- The function of major cell structure
- Information contained in the periodic table block
- The difference between ion, isotope and atom.
- How elements are arranged on the periodic table
- How matter is classified
- The difference between chemical and physical changes
- The difference between physical and chemical properties
- The difference between elements and compounds
- Quarterly

Southern Regional High School
Manahawkin, New Jersey
Course Syllabus

Marking Period 4

Topics/Units to be covered:

- Trophic levels within an ecosystem
- The differences between food chains and food webs.
- The biogeochemical cycles
- The factors that limit population size.
- Biological community interactions and symbiotic relationships
- The stages of primary and secondary succession.
- The characteristics of Earth's major biomes.
- The differences between renewable and non-renewable resources.
- Final exam