

Broward County Public Schools Curriculum Guide

10th Grade

10 BIOLOGY 1

The purpose of this course is to provide an opportunity for students to study the concepts, theories and laws governing the interaction of matter, energy, and forces, and their application to the environment. Topics will include, but not be limited to: Earth/space, pollution, conservation of natural resources, environmental management, and society's impact on the environment. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.

10 BIOLOGY 1 HONORS

The content focus of this course is consistent with the Biology I course. The academic pace, rigor and depth will be increased for honors level course work. The purpose of this course is to provide an opportunity for students to study the concepts, theories and laws governing the interaction of matter, energy, and forces, and their application to the environment. Topics will include, but not be limited to: Earth/space, pollution, conservation of natural resources, environmental management, and society's impact on the environment. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.

10 CHEMISTRY I

Chemistry I will provide opportunities for students to study the composition, properties, and changes associated with matter. Topics will include but not be limited to: classification and structure of matter, atomic theory, the periodic table, bonding, chemical formulas, chemical reactions, balanced equations, behavior of gases, physical changes, acids, bases, and salts. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.

10 CHEMISTRY I HONORS

This highly rigorous, accelerated course will provide students with an opportunity to study the composition, properties and changes associated with matter. Topics will include but not be limited to: heat, changes of matter, atomic structure, bonding, the periodic tables, formulas, equations, mole concept, gas laws, reactions, solutions, equilibrium systems, and oxidation reduction reactions. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.



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10th Grade

MARINE SCIENCE I

The purpose of this course is to provide an overview of the unique characteristics of the marine environment by exploring the physical and biological characteristics of seawater. Topics will include the ocean's present and potential resources, marine biology interactions with technology and society, and interrelationships between man and the ocean environment. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.



MARINE SCIENCE I HONORS

This highly rigorous, accelerated course will provide an advanced overview of the unique characteristics of the marine environment by exploring the physical and biological characteristics of seawater. Topics will include the ocean's present and potential resources, marine biology interactions with technology and society, and interrelationships between man and the ocean environment. Laboratory activities that include the use of the scientific method, measurement, laboratory apparatus and safety are an integral part of this course. Instructional practices infuse the State of Florida Next Generation Sunshine State Standards for Science by supporting reading from a wide range of informational texts and providing extensive research and writing opportunities, while the mathematical practices focus on applying critical thinking and logical reasoning skills.

