

Duke Ellington School of the Arts High School
Biology 2011 - 2012

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Course Description -Biology 1 is designed to develop and enhance students' comprehension and appreciation of life. Students apply the appropriate science skills and laboratory techniques to study concepts related to the biochemical nature of life, its forms and processes in a variety of ecosystems. Instruction focuses on evolution, reproduction and development, biotechnology and ecological relationships in the environment. Students are required to complete an individual project on a topic of interest. Interactive instructional technology is used to enhance and support learning including computers, software, probeware, telecommunications, CDROM, digital photography and other tools and technologies. Carnegie Unit: 1

Objectives:

Upon completion of high school biology, students will be able to:

- * Distinguish among the branches of biology and related fields of science

- * Describe various chemical reactions that occur in organisms
- * Identify characteristics that separate organisms into categories
- * Describe the function and structure of systems of various organisms

- * Distinguish among terrestrial and marine biomes

- * Apply knowledge from biology to practical situations
- * Identify equipment in science research and how it is used
- * Describe cycles that sustain life on earth

- * Design and construct models of science concepts

- * Incorporate multimedia in the science class

Requirements

- * Punctuality and daily attendance
- * Assignments completed and turned in on the due date
- * One science article summary is due each month beginning with September and ending in of May. (heading single spaced, body double spaced)

Format for article summaries -Heading - Upper left corner of the paper -source, title, author, date, page number; upper right corner your name, subject, date, period.

- * participation and cooperation in class activities - discussions, labs, field trips,

Electronic devices in class - Students will be encouraged to use

Materials -Subject notebook, laboratory notebook, pens - at least three, pencils - at least three - magic markers or colored pencils, metric ruler, calculator

Text - Alton Biggs et al (2004) Biology - The Dynamics of life Glencoe/McGraw-Hill

iPhones, iPads, and other internet ready tools to research science. The research will be teacher directed.

Grading - Students and parents will have access to Engrade allowing the monitoring of students' progress. www.engage.com

Grading percentages

Homework - 15%

Exams - 15%

Labs 15%

Class work - 10%

Advisory Exam - 20%

Quizzes -10%

Special Assignments - 15%

Exams and quizzes will be announced a week in advance of the exam or quiz.