

Quality Education Academy Science Department

Course Syllabus 2020-2021

Teacher: Ms. Rhyne

Office Hours: Monday-Thursday 2:30pm-3:30pm; Friday-11am-12pm

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Grading Scale:

A = 4.0

B = 3.0

C = 2.0

D = 1.0

F=0

100-90

89-80

79-70

69-60

59-0

Course: Biology

Course Description:

The Biology curriculum is designed to continue student investigations and deepen student understanding of the biological sciences. Instruction will include concepts introduced in grades K-8 at a more abstract level. In-depth study of the following concepts includes: the cell, the molecular basis of heredity, biological evolution, the interdependence of organisms, matter, energy and organization in living systems, and the adaptive responses of organisms. For instruction, the NC Biology standards and unifying concepts will be woven through the content goals and objectives of the course.

Course Goals:

Each student will:

- > Develop skills to do and understand scientific inquiry
- > Describe the physical, chemical and cellular basis of life
- Distinguish the continuity of life and the changes of organisms over time
- > Distinguish between the unity and the diversity of life.
- > Describe the ecological relationships among organisms

Grades Based On:

Class Work and Projects, Class Participation, and Assessments

Any missed or unacceptable assignments will need to be made up within 48 hours of the original due date.

Materials:

- ➤ Charged Electronic (Phone, Tablet, Laptop) ➤ Pen (BLACK & BLUE ONLY)
- > Paper
- > Pencil

Key virtual learning tools

- <u>Use the following link below to access how to use google classroom.</u> https://www.youtube.com/watch?v=N5UQ2V3nRp4
- Download www.zoom.com to device

Course	Google Classroom Codes	<u>Virtual Classroom Times</u>
Biology 10C	an5hy5t	8:00am-9:00am
Biology 10A	bmkkqzs	9:20am-10:20am

Assessments:

All assessments will be given according to the NC Biology Standards. These assessments include quizzes and exams.

Classroom Expectations:

- 1. We demonstrate self-respect and respect for others at all times.
- 2. We always respect the learning environment.
- 3. We enter the learning environment wearing proper attire.
- 4. We bring our supplies daily.

Arrival to Class

- 1. Enter the virtual classroom on mute
- 2. Enter the virtual classroom with the video camera on
- 3. Please type your first and last name as shown in powerschool
- 4. Gather all materials needed for class in your work area
- 5. Fully dressed upon entering the virtual classroom (No head scarves, bonnets etc...)

Classroom Rules

- ❖ Listen and follow directions, raise your hand to be recognized before talking and work only on class material.
- Refrain from text talk should be typed in the chat.
- * Refrain from grooming hair or makeup during virtual classrooms.
- * Refrain from chewing gum.
- * Refrain from engaging in disruptive behaviors.
- * Respect others in the virtual classroom.
- ❖ Absolutely no Profanity allowed.
- ❖ Refrain from eating and drinking virtual classroom instruction

Make-up work:

❖ Attendance in this class is essential to your learning. Make up work can be found on google classroom. Please go to your google classroom for missing assignments. You are responsible for checking your emails and google classroom for your assignments. Students are expected to complete ALL assignments. Please utilize the office hours and google stream to ask questions regarding your make up work.

Group work/ lab work:

- 1. All students are required to participate in labs (virtual and in classroom)
- 2. Wear appropriate personal protective equipment
- 3. Report any damaged item immediately
- 4. Absolutely no horseplay, running, joking will be allowed.

Classwork and Homework:

- 1. Classwork is given daily
- 2. Cheating policy according to the handbook is strictly enforced. will not be allowed. If caught, parents will be called, and a grade of a 0 will be given to all assignments involved.

Quizzes/Test:

- 1. Quizzes will be announced.
- 2. Tests are given every Friday due by Sunday at 11:59pm
- 3. Make up test are your responsibility, please notify me 24 hours in advance
- 4. You will only have 3 days to make up a test

Projects:

1. There will be a project assigned in the second quarter. Students will be given **one** weeks to complete a project.

Grading Scale:	How determined:	
A=100-90	Test	25%
B=89-80	Quizzes	10%
C=79-70	Classwork	15%
D=69-60	Homework	15%
F=59-0	Lab work/Projects	20%
	Class Participation	10%

<u>Tutoring:</u> If you need extra assistance please use my office hours or contact me via email and cell phone during those specific hours.

Biology

Course Outline

	Topics
Week:1	 Laboratory Safety
Unit A:	 Scientific Method
Introduction to Biology	 Microscopes
	 Characteristic on Living vs. Non-
	Living Organisms
Week: 2	 Organic Compounds
Unit B: Biochemistry	 Functions of enzymes and role in living
	organisms
Week 3-4	 Cell Structures and functions
Unit C: Cells	 Cell Specialization
	 Energy in the Cell
	Cell Reproduction
Week: 5-6	 Homeostasis
Unit D: Cellular Process	 Membrane Cell
	 Mitosis
	Cellular Respiration
	 Photosynthesis
Week: 7-9	 Structure and Function
Unit E: DNA	 Protein Synthesis
	 Mutations
	Biotechnology
Week:10-12	Inheritance
Unit F: Genetics	 Punnett Squares
	 Pedigrees and Karyotypes
Week: 13-14	 Population
Unit G: Evolution and Classification	 Dichotomous Key
	 Classification
Week: 15-16	Energy Flow
Unit H: Ecology	Carbon Cycle
	 Adaptations
	Human Impact
Week 17-18	EOC Review and Test