

East English Village Preparatory Academy
Course Syllabus-11th Grade
Next Gen Earth and Space Sciences
Academic Year 2021_2022

Course Information

General Chemistry
Marking Period: 1, (8-9.10am)
Class Location: Room A110
Time: Period 1

Teacher Information

Name: Dr. Anura Hewagama
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DPSCD MISSION AND VISION:

We educate and empower every student, in every community, every day, to build a stronger Detroit. All students will have the knowledge, skills and confidence necessary to thrive in our city, our nation, our world.

COURSE DESCRIPTION:

The course is designed to fulfil requirements of Detroit Public Schools 11th grade Science Requirements. The curriculum is aligned with State of Michigan Next Gen Earth Science Standards. The Curriculum has been adapted from New Visions Open Source Resources (<https://curriculum.newvisions.org/science/course/earth-space-science/>). In addition we utilize resources from the Earth Science curriculum from CK-12 (<https://www.ck12.org/search/?q=Earth%20Science&referrer=search>) as appropriate.

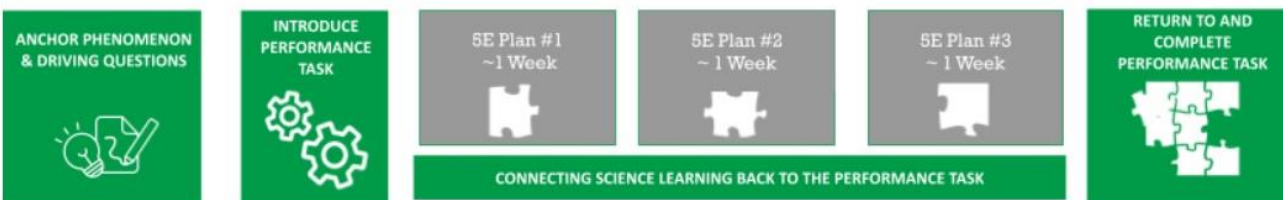
COURSE OBJECTIVES (Next Gen Science):

The students will be able to:

1. Describe the nature of scientific investigation
2. Use Mathematical Manipulations (Quantitative data) in Scientific Observation
3. Demonstrate knowledge in concepts relevant to high school chemistry/first Year College curriculum standards
4. Be knowledgeable in basic laboratory techniques used in a chemistry laboratory
5. To understand how, science, technology and society relate to each other.
6. Prepare well for the State of Michigan Science M-STEP exam.

PERFORMANCE EXPECTATIONS

UNIT 1: Discovering New Worlds	UNIT 2: Probability of Life in the Universe	UNIT 3: Earthquakes and Tsunamis: Are we at Risk?	UNIT 4: Climate Change Throughout Earth's History	UNIT 5: Human Decision Making	UNIT 6: Human Decision Making
TOPIC: Solar System	TOPIC: Early Solar System, Orbital Motion, and Origin of the Universe	TOPIC: Earth's Interior: Waves, Energy and Risk	TOPIC: Coevolution of Climate and Life	TOPIC: Human Sustainability	TOPIC: Human Sustainability
PES: HS-ESS1-1 HS-ESS1-3 HS-ESS1-4: Kepler's first and third laws (but not collisions)	PES: HS-ESS1-2 HS-ESS1-4: Changes in orbit due to gravitational forces and collisions, and Kepler's second law HS-ESS1-6 HS-ESS2-5: Role of erosion in erasing the evidence of crater impacts on earth	PES: HS-ESS2-1 HS-ESS2-3 HS-ESS1-5 HS-ESS3-1: Natural hazards and natural resources have influenced human activity HS-ESS2-5: Water lowers the melting point of rocks allowing for movement in mantle	PES: HS-ESS2-2: Concepts around climate feedback HS-ESS2-4 HS-ESS2-6 HS-ESS2-7 HS-ESS3-6 HS-ESS2-5: Water's ability to store, absorb and release huge amounts of energy DCIs: ESS2.C	PES: HS-ESS2-2: interactions between systems (ex. loss of vegetation increases erosion) HS-ESS3-2 HS-ESS3-3 HS-ESS3-4 HS-ESS2-5: Water's role in weathering and erosion that leads to landslides HS-ESS3-1: Changes in climate have influenced human activity	PES: HS-ESS2-2: interactions between systems (ex. loss of vegetation increases erosion) HS-ESS3-2 HS-ESS3-3 HS-ESS3-4 HS-ESS2-5: Water's role in weathering and erosion that leads to landslides HS-ESS3-1: Changes in climate have influenced human activity
🔄 Revised from Transitional ✓ Field Tested Fall, '18	* New Unit	🔄 Revised from Transitional ✖ Not yet written	* New Unit	* New Unit	* New Unit ✓ Field Tested Spring, '18



Class Requirements

1. In order to be a member of this class, you and your parent/guardian will be asked to read and sign a contract. This document contains classroom grading policies as well as expectations for the course. If you do not consistently follow instructions and, abide by the classroom policies you will not be able to achieve the expectations of this course. Therefore, it is crucial that you understand and sign this document in order to participate in this class.
2. All students must have a account on Microsoft Teams and on Schoology.
3. Your course material, assignments and the gradebook will be maintained in weekly folders in Schoology.
4. Furthermore, it is required that you maintain a notebook part of class participation. Credits will be given for well-maintained grade class notebooks for each grading period. Each day, “bell work (Do-Now” will be assigned and completed at the beginning of class. I will periodically be checking to see that you 1) have your notebook OR binder in your possession and 2) that you are regularly completing the “bell work” assignments.

Classroom Policies

All students are required to follow classroom policies. You earn daily 10 compliance policies for not violating any of the following policies.

1. Maintain quiet learning environment.
2. Do not disrupt the classroom routine,
3. Do not use cell phones without teacher permission
4. Do not bring food or drinks to the classroom. Do not eat or drink in the classroom,

COURSE MATERIAL -IN SCHOOLOGY

STUDENT EVALUATION

The grading system for the Next Gen Earth Science Course at East English Village Preparatory Academy is as follows:

Attendance & Class Participation Compliance -20% Daily participation timely effort -20%	-	40%
Tests, Quizzes The midterm and/or final exam will constitute the remaining 50% of your Test grades per semester.		40%
Assignments, Projects, Notebook	-	20%
The above areas will be used as the basis for 100% of your grade per semester. In addition, your citizenship credit will be given based on classroom behavior and the		
Citizenship Extra Credit	-	10%

Attendance Policy

Regular and prompt class attendance is an essential part of the educational experience. EEVPA expects students to exercise good judgment regarding attendance and absences. Students will accept full responsibility for ensuring their work does not suffer because of absences. All students are expected to attend every scheduled class on time. Exceptions may be made for illness and valid emergencies.

Classroom Expectations

1. You are expected to bring all the writing supplies every day to the classroom.
2. During the online learning- make your best effort to participate in the lesson.
3. RESPECT others' work, ideas.
4. Cooperate with others.
5. Make sure you make a full use of the class hour. Any distraction is not accepted.
6. Enter and leave the room online session in a respectful manner. Make sure to sign in using MS Teams Chat option as soon as you enter the classroom.
7. Be safe! Use your time wisely, avoid distractions.

Plagiarism, Cheating, and Academic Integrity

Plagiarism is the practice of copying words, sentences, images, or ideas for use in written or oral assessments without giving proper credit to the source. Cheating is defined as the giving or receiving of illegal help on anything that has been determined by the teacher to be an individual effort. Both are considered serious offenses and will significantly affect your course grade. Please refer to the Student Code of Conduct booklet for additional information.

Methodology

A combination of lecture, class discussion, presentations, videos, cooperative learning, and problem-based learning will be used in this course. Grades will be determined by the satisfactory and timely completion of assignments. The grade of each assignment is based on the prerequisite given for each assignment. Below is an overview of topic/ units and major assessments/assignments for this course. Please note dates/timeframes are subject to change and are an estimate.

General Information

Bathroom Pass Policy:

Make sure to regular requests for bathroom passes. Do not take more time than necessary to use bathrooms. You are expected return to the class in 5 minutes after receiving a bathroom pass. Violations of the bathroom pass policies will result in log entries and denial of your future requests. No passes are given during the first 15 and last 15 minutes of the class hour.

Textbook:

For general High School level: I use CK.12 online textbook for the class (<https://flexbooks.ck12.org/cbook/ck-12-chemistry-flexbook-2.0/>). Advanced classwork will be completed along with Khan Academy AP Chemistry Course work(<https://www.khanacademy.org/science/ap-chemistry-beta>)

The textbook used in this course is titled *Modern Chemistry* by Holt, Rinehart, and Winston. You will be given access to an online version of the textbook. Hard copies of the textbook will be stored in the classroom and used as needed. If you do not have access to the internet at home, please let me know and you will be allowed to sign out a hard copy of the textbook. If at any time you feel that having a hard copy of the textbook would better suit you, you may check with me and sign one out. Just remember that while the book is in your possession, it is your responsibility. Any damages to the book that occur while it is in your possession will need repaired and therefore will result in a monetary fine. The cost to replace a

lost book is \$75.00. Any fees that remain unpaid can result in the withholding of your report card at the end of a marking period.

Good, better, best, will never do you rest; until your good is better, until your better is best. Let's do our best this semester and also have some fun!