

## COURSE SYLLABUS for EARTH SCIENCE: SEF21QQB/2 & SEF22QQB/2

Mrs. Dubizh - Summer 2019

### Course Description:

The study of Earth Science this summer will consist of 3 basic units: Climate Change and Global Warming, Minerals, Rocks and Gems and The Theory of Plate Tectonics and the formation of Earth's features.

We will begin by exploring the complex issue of Climate Change and the present day causes and effects of Global Warming. Next, we will look at the basic elements that comprise the Earth and how they combine to form minerals that we use in various ways in our daily life. Emphasis will also be put on the importance of recycling mineral resources. Finally, we will touch on how rocks are formed from these minerals through the rock cycle.

The course will finish with a brief look at Astronomy; the study of the planets and other celestial bodies. Students will be introduced to the theory of the Big Bang and analyze its future implications for space travel and possible colonization. As a final project students will choose a topic of interest and create a research question that they will answer in a short paper that they will present to the class.

### Text:

Glencoe/McGraw Hill - Earth Science, 2008  
Feather, Snyder, Zike, et al.

### Workbooks:

Globe Fearon / Science Workshop Series:

Seymour Rosen - Geology, 2000  
- The Universe, 2000

## Course Expectations:

### Grading Policy –

- 25%      Classwork – Focus and be prepared to participate. If you are absent, try to get the class notes from another student and ask me for any handouts or worksheets that were given. You ARE responsible for material that we go over in class that you miss.
- 25%      Homework - Do your homework every night. If you don't understand something, write down your questions and ask them first thing when you come in.
- 25%      Quizzes / Exams - There will be a mid-term exam covering the first two units half way through the semester and a final exam that covers the third unit at the end.
- 25%      Astronomy Semester Project - Research Paper – 2 pages min. (double spaced)
- You will choose your own topic that you are interested in and formulate a question that you would like answered about the topic using at least three sources. (Two can be websites, but one must be a printed material; book, magazine, article).

SPECIAL SEMESTER PROJECT: Research Paper – 2 pages min. (double spaced)

Choose your own topic that you are interested in. Formulate a question that you would like answered about the topic – make sure that it's not too broad or too narrow. Use at least three sources. (Two can be websites, but one must be a printed material; book, magazine, article).

1. What is it? (definition)  
5 sentences
  
2. Why is it important?  
3 - 4 sentences
  
3. How is it formed or created?  
3 - 5 sentences
  
4. Where do you find it? Why?  
3 sentences
  
5. When does it happen OR when was it discovered or named?  
3 sentences
  
6. Who is the main scientist OR organization that studied (or is studying) it?  
2 - 3 sentences

