

Earth Science

Grades: 5th – 7th
Day of Week: Tuesday
Time of Class: 11:00 am – 12:30 pm ET
Length of Class: 20 Weeks
Semester: Fall & Winter
Tuition: \$400.00

Class Dates:

Fall

Week 1: September 15

Week 2: September 22

No Classes: September 28 - October 9 (Yom Kippur and Sukkot)

Week 3: October 13

Week 4: October 20

Week 5: October 27

Week 6: November 3

Week 7: November 10

Week 8: November 17

No Classes: November 23 – Thanksgiving Week

Week 9: December 1

Week 10: December 8

Make Up Week: December 15

Winter

Week 1: January 12

Week 2: January 19

Week 3: January 26

Week 4: February 2

Week 5: February 9

Week 6: February 16

Week 7: February 23

Week 8: March 2

Week 9: March 9

Week 10: March 16

Make Up Week: March 23

Instructor's Name: Samantha Star
Instructor's Email: samantha.star.education@gmail.com
Instructor's Skype: Samantha_star
Instructor's Phone: 514-655-2811
Instructor's Whats App: 514-655-2811
Office Hours: By appointment

Description of Class:

The Earth needs us now more than ever, and it needs students who understand the different systems affecting the Earth. We will take an in depth look at energy, tectonic plates, weather, climate, volcanoes, etc. We will also be introduced to important scientific concepts such as heat, density and buoyancy. We won't stop at the edge of the Earth though, we will also discuss the solar system including the sun, planets, moons etc.

Students will be asked to explore the world around them using virtual models, watching videos, discussion, debate and experimenting.

Class Approach:

Students will be asked to complete reading and research ahead of time so that our class time can focus on lectures, discussions, activities, etc. Student are encouraged to take a hands-on approach to learning.

Goals:

Students will be able to:

- Explain the scientific method
- Distinguish between minerals and rocks
- Describe earth's surface and earth's history
- Explain earth's water cycle
- Differentiate between the different layers of the atmosphere
- Describe the effects of weather and climate on Earth
- Describe the characteristics of the planets in our solar system
- Discuss the earth-moon-sun system

Textbook:

Science Fusion – Module E – The Dynamic Earth

Science Fusion – Module F – Earth's Water and Atmosphere

Science Fusion – Module G – Space Science

The above interactive worktexts are all available from www.amazon.com for about \$10 - \$15 each. They are by the publisher Houghton Mifflin Harcourt.

Additional Supplies/Resources Needed:

- Webcam
- Microphone
- Notebook
- Pencil
- Paper

Students may join in when labs and experiments are completed by the teacher. Supply lists for these labs will be sent out 2-3 weeks prior to the experiment. Students are not obliged to follow along at home, the teacher will complete the experiment/lab live as well.

Students may be asked to complete models of certain systems. Supply lists will be sent out 2-3 weeks before the model is due.

Requirements:

Students are expected to take part in class discussions and demonstrate a knowledge of the homework completed beforehand.

Weekly Homework:

Weekly homework will vary and will average approximately 1-2 hours per week.

Homework Policy:

Weekly homework will be due prior to class. Late assignments will be penalized 5% per day, for a maximum of 3 days. After 3 days, the student will not receive any marks for late homework. Late quizzes, exams and papers will not be accepted.

If you will have an issue meeting a deadline, please contact me to discuss.

Additional Policies:

Attendance is expected at all classes. There will be a strict zero-tolerance policy in regard to plagiarism and cheating. "Cheating" is defined as unauthorized help on an examination or assigned course material. A student must not receive from any other student or give to any other student any information, answers, or help during an exam. A student must not "steal" the answers from an unsuspecting student during an exam. "Plagiarism" is defined as the taking of a person's ideas, words, or information and claiming those properties as one's own. The use of all ideas, words, or information from any source must be properly referenced and due credit must be given to its author. All cheating and plagiarism infractions will result in a grade of "0" for the assignment.

Evaluation:

Class Participation – 10%

Term Project – 25%

Homework Exercises – 40%

Unit Quizzes - 25%

Grading Scale:

Percentages/Grades

100-90: A

89-80: B

79-70: C

69-60: D

59 – 0: No effort: F

Anticipated Weekly Course Schedule:

Week	Topic
Week 1	Introduction, Syllabus Review, Earth's Surface
Week 2	Earth's Surface – Virtual Lab Erosion
Week 3	Earth's History
Week 4	Earth's History – Virtual Lab Relative Dating

Week 5	Minerals and Rocks
Week 6	Minerals and Rocks - Lab
Week 7	The Restless Earth
Week 8	The Restless Earth - Lab
Week 9	Earth's Water – Virtual Lab
Week 10	Oceanography

Week	Topic
Week 1	Earth's Atmosphere
Week 2	Earth's Atmosphere – Virtual Lab
Week 3	Weather and Climate
Week 4	Weather and Climate – Weather Map and Weather Prediction Lab
Week 5	The Universe
Week 6	The Universe - Structure of the Universe Virtual Lab
Week 7	The Solar System
Week 8	The Solar System – The Terrestrial Planets Virtual Lab
Week 9	The Earth-Moon-Sun System – Moon Phases and Eclipses Lab
Week 10	Exploring Space – Images from Space Virtual Lab