

P35M/Manhattan High School

Course Code: SEF21QQM/1

Course Name: Earth Science

Teacher Name: M. Velez

Year and Term: Summer 2019

Learning Standards:

Writing 1

Reading Informational Text 1 and 10

Language Standard 6

Speaking and Listening 1 and 2

Course Description:

Welcome to earth Science – the study of the world around you. Our topics will include Astronomy (study of the outer space), Geology (study of rocks, earthquakes, volcanoes and plate tectonics), Meteorology (study of the atmosphere, climate, and climate change), and Oceanography (study of the oceans and water systems). This course will use hands-on experimentation, activities, and direct instruction. You will be able to learn the “how” and “why” not just the “what” of science. I will show you how Earth Science is relevant in your everyday life; you must provide the willingness to learn.

Calendar or Unit Map:

Science Basics

- Introduction to Earth Science
- Models of earth Science (Latitude/Longitude, Topographic Maps, GPS Receivers)

Geology

- Plate Tectonics (Seafloor, Spreading, Plate Boundary Features, Plate Motions)
- Rocks (Rock Cycle, Igneous, Sedimentary and Metamorphic Rocks)
- Earthquakes (Seismic Waves, Causes, California Hazards)
- Volcanoes (Types of Volcanoes and Magma, California Hazards)

Oceanography

- Ocean Water (Salinity and Density)
- Movements of the Ocean (Currents and Upwelling)

Meteorology

- Atmosphere (Composition/Structure, Movement of Energy)
- Climate (Causes of Changes, Greenhouse Effect)

Astronomy

- Studying Space (Electromagnetic Spectrum)
- Our Solar System (Formation, Terrestrial Planets, Gas Giants Planets)
- Minor bodies of the Solar System (Satellites, Asteroids, Meteors)
- The Sun (Solar Energy, Stellar Evolution)
- Stars, Galaxies and the Universe (Milky Way Galaxy, Types of Galaxies)

Grading Policy:

- Classwork 20%
- Participation 20%
- Exams/Quizzes 20%
- Homework 20%
- Behavior 20%

Policies:

- Homework is due weekly.
- Successful students will attend class regularly and be on time.
- Successful students will demonstrate skills indicative of quality workers by bringing required materials, completing homework assignments, participating in class discussions, and respecting the opinion of others.
- Successful students will demonstrate accountability by listening closely in class.
- Students are not allowed to have cell phones while on school property. Therefore, if a student is seen using their cell phone for any reason, the cell phone will be taken away from the student and given back to the student at the end of the school day.
- Students are not allowed to leave the classroom without a hall pass. Only one student at a time can use the restroom. If the student has any physical problems or side effects from medications, please discuss it with a counselor or me.
- A Zero Tolerance Policy is enforced concerning cruelty, harassment, excessive teasing, discrimination, bullying, violence, and intimidation. Foul language, derogatory remarks, and disrespect toward classmates, teachers and school staff will not be tolerated.
- A Zero Tolerance Policy is enforced concerning cheating on tests, quizzes, and plagiarism.
- Students are expected to respect the property of others (including writing on or defacing desks).

Supplies:

- 1 folder
- Pen and/or pencils
- Loose leaf paper

Student Name: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____

- Signing this document means that you have are acknowledging that you have received the following syllabus and will adhere to all expectations and requirements for this class. Any time you do not adhere to the expectations and requirements can put you at risk of lowering your grade or failing the course.