**Geoscience Syllabus 2017**

Mrs. Sjuts

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Office Room Number: S380

Office Hours: By appointment before school or at lunch. *I am not here in the afternoons or after school.*

Schedule: Period 1 – PLAN (S380 or S328)

Period 2 – Basic Physical Science (S227)

 Period 3 – Honors Physical Science (S228)

 Period 4 – Honors Physical Science (S231)

 Period 5 – Jr/Sr Geoscience (S231)

**COURSE DESCRIPTION:** Geoscience is a field of science that deals with studying Earth and the universe around it. This course will focus on the fields of geology, oceanography, meteorology, and astronomy.

**EXPECTATIONS:** It is never ok to be **hurtful** or **disruptive**. *This means no bullying.*  As a student in my class you will be expected to:

**Be Safe**

* Keep your hands, feet and legs to yourself. *No horseplay or PDA.*
* Use all materials and equipment in a way that is appropriate for the classroom.
* Help others.
* Know and follow classroom routines.

**Be Respectful**

* Respect others with your words and actions. *“I was just playing” is no excuse.*
* Use school-appropriate language. *No profanity, name-calling, yelling, etc.*
* Practice good listening skills. *Raise your hand and wait to be called on before sharing.*
* Treat others’ as you would want to be treated. *Pick up your trash!!!!!!*
* Follow directions.
* Have a positive attitude. Make a happy face ☺

**Be Responsible**

* Arrive in class on time, seated with all materials when bell rings.
* Carry your planner and wear your ID.
* Participate in classroom activities and assignments.
* Be prepared with class materials.

**\*\*\* IF you do these three things, you will pass my class with no problems:**

1. **Come to class DAILY and ON TIME.**
2. **Put your phone AWAY during class. I do not want to SEE it unless you have asked me FIRST.**
3. **Participate in all we do: discussion, reading, taking notes, lab, etc.**

Tentative outline (Order may vary.)

***Geology (10 weeks)***

• Chapter One: Introduction to Earth Science

o Section 1.1: What is Earth Science?

o Section 1.2: A View of Earth

o Section 1.3: Representing Earth’s Surface

• Chapter Three: Rocks

o Section 3.1: The Rock Cycle

o Section 3.2: Igneous Rocks

o Section 3.3: Sedimentary Rocks

o Section 3.4: Metamorphic Rocks

• Chapter Nine: Plate Tectonics

o Section 9.1: Continental Drift

o Section 9.2: Sea-Floor Spreading

o Section 9.3: Theory of Plate Tectonics

o Section 9.4: Mechanisms of Plate Motion

• Chapter Twelve: Geologic Time

o Section 12.1: Discovering Earth’s History

o Section 12.2: Fossils: Evidence of Past Life

o Section 12.3: Dating with Radioactivity

o Section 12.4: The Geologic Time Scale

• Chapter Thirteen: Earth’s History

o Section 13.1: Precambrian Time

o Section 13.2: Paleozoic Era: Life Explodes

o Section 13.3: Mesozoic Era: Age of Reptiles

o Section 13.4: Cenozoic Era: Age of Mammals

***Astronomy (5 weeks)***

• Chapter Twenty-Three: Touring Our Solar System

o Section 23.1: The Solar System

• Chapter Twenty-Four: Studying the Sun

o Section 24.1: The Study of Light

o Section 24.2: Tools for Studying Space

• Chapter Twenty-Five: Beyond Our Solar System

o Section 25.1: Properties of Stars

o Section 25.2: Stellar Evolution

o Section 25.3: The Universe

***Oceanography/Meteorology (3 weeks)***

• Chapter Six: Running Water and Groundwater

o Section 6.1: Running Water

• Chapter Fifteen: Ocean Water and Ocean Life

o Section 15.1: The Composition of Seawater

• Chapter Sixteen: The Dynamic Ocean

o Section 16.1: Ocean Circulation

o Section 16.2: Waves and Tides

• Chapter Seventeen: The Atmosphere: Structure and Temperature

o Section 17.1: Atmosphere Characteristics

o Section 17.2: Heating the Atmosphere

o Section 17.3: Temperature Controls

• Chapter Nineteen: Air Pressure and Wind

o Section 19.1: Understanding Air Pressure

o Section 19.2: Pressure Centers and Winds

o Section 19.3: Regional Wind Systems

• Chapter Twenty: Weather Patterns and Severe Storms

o Section 20.1: Air Masses

o Section 20.2: Fronts

• Chapter Twenty-One: Climate

o Section 21.1: Factors That Affect Climate

o Section 21.3: Climate Changes