**Science – Means to Know**

**Science – Means to Organize**

**Routine 1 – Everyday Procedure**

Bell rings be in assigned seat with the following *(not by assigned seat subject to lateness policy)*

* Science textbook: on line text - <http://my.hrw.com/> login: **mrgoodyear2** password: **12345**
* Science notebook - 3 ring notebook and 2 packets of paper



* Pencils and pens
* **Do not leave seat without asking**

**Routine 2 – Warm-up questions (5-8 minutes)**

* Students are to **start on warm-ups when they enter the room** and find answers based on pages given
* Quiz every Friday based on weekly warm-ups given that week. Warm-up questions collected with quiz paper

**Routine 3 – Notes (usually everyday 10-20 minutes) be neat**

* Every student is required to take notes and keep a science notebook which will be graded at the end of each unit (participation grade)
* Organization of notebook will be based **on Table of Contents for that Unit** placed on overhead each day

**Routine 4 – Worksheets, labs, videos, computer labs and homework**

* Wait for teacher’s instructions before doing anything
* Students are to do their own work unless directed to do otherwise. Cheating will result in a zero or detention or possible office referral
* No Talking – (except in lab activities that require student discussion) If you have questions **– RAISE YOUR HAND !**
* Papers handed in should have: **Full Name. Date, & Table of Content #**
* **You Are Responsible For Missed Work : Web site:** [**http://mrgoodyearearthscience.weebly.com/**](http://mrgoodyearearthscience.weebly.com/)
* Videos usually have questions with them which are graded. Information on videos is very important laying head down on desk will result in a zero for that assignment.

**Routine 5 – Review: cool down Questions (last 4 minutes)**

* Instructor will tell you to place materials for class away (quickly and quietly) do not put materials away until directed. Use the time given to you do not waste it.
* Two cool down questions will be placed on overhead – write the answers down on back side of warm-up paper.

**Class room expectations:**

**BE READY**

**BE RESPECTFUL**

**BE RESPONSIBLE**

1. **Be on Time!**
2. **Be Prepared with appropriate materials and attitude.**
3. **Raise your hand if you have something relevant to say.**
4. **Hands off policy this includes people and material.**
5. **Remain seated when dismissal bell rings. I will dismiss you.**
6. **Be respectful to others. \*** being disrespectful to teacher(s) or fellow classmates will not be tolerated
7. **Get involve**

***Follow a few simple rules will allow all of us to have a successful and enjoyable year in science***

**Bathroom –** students are expected to use restroom between classes. Please do not ask to use bathroom unless it is an emergency. **You need you agenda !!!**

**Fire drills – follow** teachers’ instructions and posted signs (when outside stay with your class, and in assigned area)

**Announcements –** should be no talking – listen !!!!

**Cell phones –** radios – MP3 players – Electronic game devices**: do not have them out during class** !!!

**\* follow all Wicomico county policies that are outlined in your code of conduct handout**

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**Environmental (Earth) Science General Outline of Topics Covered**

General Science Review Section

Chapter 1&2 Introduction to Environmental (earth) Science / Earth as a System

(Branches of science, scientific method, measurement)

**Geosphere**

This unit will cover the geosphere including the structure of the earth, geosphere changes, composition and the effects of plate interactions and natural disaster solutions.

-Earth’s Interior: Structure and Composition

-Continental Drift/ Plate Tectonics

-Earthquakes & Volcanoes

-Rock and Soil Formation

-Natural Resource Distribution & Human Populations

-Natural Resource Use & Extraction (Time permitting)

**Hydrosphere**

This unit covers the Hydrosphere including water properties, interactions with earth's systems, Land use changes affecting water, water pollution, and availability of water.

-The Roles of Water in Earth's Surface Processes

-Earth Materials and Systems

-Water is cycled throughout Earth's major systems.

- Water is a limited resource and is not evenly distributed.

- Human activities can pollute water.

-Human innovation can improve water quality.

-Activities on land can alter runoff, erosion, infiltration, and coastal processes.

- Water properties such as heat capacity, density, and polarity determine biodiversity.

- Water properties affect climate.

- Severe weather can cause flooding that affects human activities.

**Atmosphere**

This unit includes Layers and composition of the atmosphere, Evolution of the Atmosphere, Dynamics of Atmosphere, and Human Impacts and Solutions.

-The atmosphere is dynamic in terms of the composition and function.

-Human activities can pollute the atmosphere.

-Through human innovation and policies, we can reduce the effects of air pollution.

**Climate Change**

This unit is about Climate Change including the causes, feedback loops, developing solutions and forecasting future climate change.

-Changes in the Earth's systems may influence human activity and human activity may cause changes in Earth's systems.

-Changes in the one of the earth's systems will cause changes in other earth systems.

-There are positive and negative feedback loops that may be affected by changes in climate.

-There are different climate zones.

-The distribution of the human population depends on the availability of natural resources and climate.

-We can use data and models to predict earth's future climate.

-Human innovation can positively alter earth's systems.

**Astronomy Section**

Life span of the sun and the role of nuclear fusion in the sun’s core to release energy that eventually reaches Earth in the form of radiation.

Construct an explanation of the Big Bang theory based on astronomical evidence of light spectra, motion of distant galaxies, and composition of matter in the universe.

Apply scientific reasoning and evidence from ancient Earth materials, meteorites, and other planetary surfaces to construct an account of Earth’s formation and early history.

Grades are based on total points earned in the following areas:

1. Test at the end of each unit section 100 points each
2. Daily worksheets, videos and lab work: 15 to 50 points (varies)
3. Homework 15 to 25 points
4. Notebook at the end of each unit: 2 points for each page completed (must be neat and in order)
5. Warm-up and Sum-up questions / quiz: 20 points on a normal week.

Grades sections are weighted in the following areas:

**50% Summative** Test 40% and 10% quizzes 5**0% formative** - 15% Homework, 20% Classwork, 15% Notebooks/participation

Grades are based on the following scale A 90-100% B 80-89% C 70-79 D 60-69 E below 60