

October 18, 2021

Dear Parents and Students,

Welcome to Environmental Science! This year we will be studying a lot of different topics ranging from environmental chemistry, to eco-systems to weather and climate. We are in store for a great year filled with labs, activities, and lots of learning. Something that will keep you on top of your science this year is my website.

mrpowellscience.com

Also subscribe on youtube.com *Mr. Powell Science*

Please visit the site regularly to stay up to date on what happened in class, what's coming up, and, if you miss a day, what you missed.

Additionally, all work will be submitted digitally through **Google Classroom**. The class code for your class is **3nujeiu**

For science class, in addition to a pencil, you will need a **binder (1-2 inches preferred), glue stick, colored pencils, highlighter** and **scissors**. We will use each of these items almost daily. I'm looking forward to a great year of science learning with you!

-Mr. Powell

What is science?

Before

After

Why is science important?

Before

After

Environmental Science 2021-2022 Syllabus

Weekly Instruction Outline (Subject to change)

| Monday | Tuesday | Wednesday | Thursday | Friday |
|-----------------------|--------------------|-----------------|----------------|----------------|
| Content Learning Time | Simulation Lab Day | Work/Study/Read | Work/Study Day | Assessment Day |

Environmental Science A

First Semester (Environmental Science A)

Unit 1: Environmental Chemistry ~3 weeks

- *Where Do Atoms Come From?*
- Atomic Structure
- Periodic Table
- Bonding
- Naming and Writing Formulas
- Balancing Equations

Unit 2: Earth History ~4 weeks

- **What makes the Earth a unique planet that sustains life?**
- How is our planet different from other discovered planets?
- What components are necessary for life to exist and where do they come from?
- How do we know where these components came from?
- What evidence do we have?
- **How does the knowledge of the Earth's past help us predict future events?**
- **What are ways that we find out about Earth's past events?**
- **Why are Earth's past events important?**
- **How have past events affected the evolution of life on Earth?**
- **In what ways do the Earth's systems model the laws of conservation of matter and energy?**

Unit 3: Natural Resources ~2 weeks

- How do humans use natural resources?
- What are the sources of natural resources such as water, soil, minerals, and energy resources? How are the resources formed?
- What are the impacts on resources by natural events and human activity?
- How does the availability of natural resources affect human activity?
- What are the effects of overuse of natural resources to a society?
- How can societies use resources more sustainably?
- How do oversight agencies monitor the extraction and use of natural resources?

What is Environmental Science?

In the boxes below list at least one item for each topic, you may use phones for research if needed

Environmental Issues Facing the World Today

Species of Animals that Should be Saved

College Majors that Relate to Ecology

Places to Visit to Enjoy the Environment

Movies The Have an Environmental Theme or Message

Ways that Individuals Can Help the Environment

Laws that Protect the Environment

Products that Have an Environmental Message or Application

Mystery Box CER

Question:

Claim: (attempts to answer the question)

Evidence: (What can you find or test that supports your claim)

1. _____ 2. _____ 3. _____

Reasoning: (Connects evidence to claim)
