

Seventh-Grade Science

Mr. Penoyer, Room A231

Dear 7th-Graders,

Welcome to science class. In all my 35 years of teaching, this will be the most challenging. Much of what I like to do is hands-on and how that will unfold in a virtual class is going to be interesting. I am hoping that this will be short lived and that we will all be returning to the classroom as soon as possible.

We will be studying a variety of topics including environmental science, physics and earth science. Many of the topics include activities that require you to make measurements, record observations, organize data and present results. My goal will be to get you outside as much as possible.

We will begin and end the school year with a unit on animal and plant reproduction. The fall is the best time to observe the tail end of plant reproductive processes-namely the seeds produced by plants. In the spring, we will focus on both plant and animal reproduction with the same goal of getting you outside to make your observations.

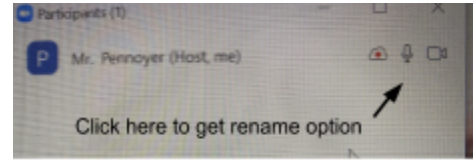
We will follow that with a unit on weathering and erosion. Like the animal and plant reproduction unit, it will require you to go outside to make and record observations. I am hoping that this will give you an occasional break from all the screen time that will be required of you this fall.

I will be using STEMSCOPES to guide our content. However, much of what you will be doing will be activities that I am hoping will allow you to work independently. Below is a list of the STEMSCOPES Units we will be covering. The numbers that follow are the frameworks that can be looked up if you are interested.

Units of Study

- Plant and Animal Reproduction (MS-LS1-4)
- Relationships in Ecosystems -competition, flow of energy, interdependence (MS-LS2-1-6)
- Earth Systems and Natural Hazards-(weathering and erosion, plate tectonics (MS-ESS2-2, MS-ESS3-2)
- The Water Cycle (MS-ESS2-4)
- Human Impact on Earth Systems (MS-ESS3-4)
- Forces at a Distance-magnetism and electricity (MS-PS2-3, MS-PS2-5)
- Kinetic and Potential Energy (MS-PS3-1, MS-PS3-2, MS-PS3-5, MS-PS3-7 (MA)
- Heat Transfer (MS-PS3-3, MS-PS3-4, MS-PS3-6 (MA)

Below is a brief summary of things you should have, know and do in science.



Zoom meetings

- Attendance for full 45 minute class -video on unless you have special permission.
- If you are using someone else's computer, please change it to your full name.
TO CHANGE TO YOUR NAME
 1. When in Zoom click on participants
 2. Click on the 3 upper right hand icons to get "more"
 3. Click on "more" to get the **rename option** - please write your full name.
- Video on at all times-unless you have special permission to have it turned off .
- Mute yourself when not speaking
- Use **raise hand** or **chat** for questions
- Use **coffee cup** icon to request a short leave
- Appropriate language and behavior in full and breakout rooms

Support Programs

Google class- emailed an invite.

STEMscopes - Username is your meapps email address, password is "science"

Quizlet - you will be given direct links

Padlet

Study.com

Kahoots

Google class

See class work for assignments'

Journal will be kept in E-journal folder -google doc

Assignments will be prefaced as classwork or homework

Classwork that is to be finished for homework will be relabeled as such if assigned

Materials

Calculator (same as math)

Metric Ruler (from kit)

Coloring pencils, pen and regular pencils

Graph paper (same as for math)

Printer and lined paper as needed

Use of a camera for documentation of observations when needed.

Science/Technology Kit -Don't lose the pieces.

Grading Homework 10%

Quizzes 10%

Tests 40%

Labs reports, packets and projects 30%

Participation 10%

Note - unexcused absences will impact grade.