**8th Grade Science**

The following is a general list of topics that we will cover throughout the year. As a part of these units you will participate in teacher-led discussions, laboratory investigations, Vernier LabPro 2/LabQuest Mini data collection, student-led discussions, field trips, individual/group research and presentations, and reading for information/text critiques/current events in science.

## BOOK UNIT TOPICS COVERED

**Motion, Forces, and Energy** What is motion? Speed, velocity, momentum

 The Nature of Forces Newton’s Laws

 Work, Power, simple Machines work, power, and machines

 Energy: Forms and Changes KE and PE, conservation of energy

\*\*engineering/design/construction competition\*\*

**Electricity and Magnetism** Electric Charges and Currents charges, static E, circuits, power

 Magnetism magnets, Earth as magnet

Electromagnetism electromagnetic motor construction

**Chemical Building Blocks** Matter and the Periodic Table States of Matter

 Periodic Table

 Materials

**Chemical Interactions** Atoms and Molecules Bonding

Chemical Reactions

 Acids, bases, and solutions

**Sound and Light** Wave Behavior, Sound & Light Characteristics of waves

Sound

 Light

Grades are determined based on your performance on the above activities and topics. My grading scale is posted in the student handbook, remember I do not give out grades…you earn them. Do not wait until report cards are coming, stay on top of your work and let your parents/guardians know how you are doing. POWERSCHOOL DOES NOT ROUND UP!!!!!!!

It is extremely important that you come to class prepared with your book, notebook, pen/pencil, calculator, and most importantly of all; a positive attitude and a good sense of humor!

I enforce the rules that are established by Iron Mountain HS/MS and for this classroom. I am very fair when it comes to discipline…if I am wrong I will admit it and apologize, if you are wrong I expect the same! Please be aware of the “rules” and our school discipline policy. We do a lot of fun things in 8th grade…don’t miss out!

If you need to leave class; sign out!! I allow 3 sign-outs per semester.

I keep track of tardies; show up on time!! A Saturday School will be assigned on your 3rd tardy. Tardies do not carry over to the 2nd semester:)

**Any work turned in after the due date will be worth 1 point...unless you were absent**. I do have bonus, but only for students with no missing assignments...you must see me for bonus!

Be aware of the wireless device policy for Iron Mountain HS/MS and this room. There is a time and a place for all types of wireless devices. I WILL LET YOU KNOW WHEN THESE DEVICES ARE NEEDED! I confiscate wireless devices used outside of these designated times; they will be returned after class/end of the day/by the office for 1st-3rd offenses respectively.

If you ever have any questions, just ask! Come see me, e-mail me, check my website, etc….I am looking forward to another awesome year filled with real learning experiences that last forever.

Go Mountaineers !!!!

**Mr. Waitrovich**