Chemistry Exploratory Packet

Congratulations for mastering your 1st Quarter of 8th Grade Earth Science!

Choose what you'd like to do next from the following activities.

I. Create your own video/vodcast

1. Pick a subject that we covered. Maybe the Scientific Method? Atoms? Periodic Table?
2. Plan a lesson to film on camera.
3. Find video camera.
4. Film the video/vodcast.
5. Edit the video.
6. Show the world.

II. Create a Bill Nye imitated production

1. Pick a subject that we covered. Maybe the Scientific Method? Atoms? Periodic Table?
2. Plan a lesson to film on camera.
3. Find video camera.
4. Film the video/vodcast.
5. Edit the video.
6. Show the world.

III. Create your own lesson using Powtoons

1. Pick a subject that we covered. Maybe the Scientific Method? Atoms? Periodic Table?
2. Plan a lesson to create.
3. Sign up for a free account on powtoon.com.
4. Create the lesson.
5. Share with teacher so you can show the world.

IV. Legacy Project

Make something for next year's class. What will they need to know about this class? What will ensure that they are successful? What are mastery days? What are vodcasts? How do you do well on standard checks? When do you get to go on to the next thing? Make a video that tells them what the class is about, and what will make them successful.

V. Famous Chemist FakeBook Page

1. Pick a Famous Chemist (Dalton, Thomson, Rutherford, Bohr, Schrodinger, or Heisenburg)
2. Research Him with Google, Wolfram Alpha, Qwiki, etc.
3. Make the Page (write on the wall, friend other people from that time period, develop the profile, etc.) - go to http://classtools.net/fb/home/page and start editing! **Note:** This will not work on a chromebook - you will need to use a computer for this project idea.

VI. Watch and/or Complete Crazy Chemistry Labs

Check out these links to see a variety of labs. Some of them use common supplies so that you could try them yourself. Other ones may be better to watch and then research why they work the way they do. Have fun exploring!

Option 1: Replicate labs/demos found on the Science Fix website.

Option 2: Check out the chemistry of cooking at Science of Cooking. There are tabs along the top for different foods.

Option 3: Make Elephant Toothpaste More about Elephant Toothpaste (Potassium Iodide added to Hydrogen Peroxide and Liquid Soap)

Option 4: Kill a Gummy Bear (molten Potassium Chlorate, then add a Gummy Bear - poor Gummy Bear)

Option 5: Find a lab to complete from Mister Guch website.

Option 6: Mentos and coke - research why it makes such a fabulous mess, then try it. Make sure to capture video of the experiment and your explanation.

Option 7: Home experiments - there are tons (ok, not literally) of different experiments listed here - check them out!

You should ~~perhaps~~ *definitely take* video of your demos!

*****Always get permission from your teacher/parent before mixing chemicals in a lab!**

VII. "This is what happened this Quarter" Prezi or VoiceThread

This should be a summative picture of this quarter in the form of a Prezi or VoiceThread. Share what you, and the rest of the class, learned about over the first 9 weeks of school.

VIII. Research One Of These Topics

Option 1: The Higgs Boson - Start Here,then Here

Option 2: Cheeseburger Chemistry (Yumm!) We particularly enjoyed "The Chemistry of Bread", but you can explore all parts of the burger, plus many other topics listed along the left side margin of the page!

IX. Find an introductory Lesson for Accelerated Chemistry

Do some independent learning about Lewis Dot diagrams and some other subjects covered in High School Chemistry.

http://www.middleschoolchemistry.com/lessonplans/chapter4/lesson6

X. Present an alternative for what you want to do to your teacher