Semester outline for Experimental science

1. Safety in the lab with quiz to follow
   1. Microscope activity
2. Scientific method
   1. Develop your own observation activity
3. Myth buster unit
   1. Bust myth I provide for you
   2. Research your myth as a group
   3. Make a video or poster of your results taken from your experiment you came up with for your myth choice.
4. Inventors unit
   1. Lab inventors worksheet
   2. Research an inventor
   3. Create your own invention with a group
5. Biomimicry unit
   1. Research structures that can with stand pressure
   2. Build your own model structure
6. Brain damage research
   1. Create a commercial about your material you have researched
   2. Dissect a brain
7. Solar system unit
   1. Research a planet and develop a poster about that planet
   2. Create an alien that could live on your planet
   3. Make a paper Mache 3D model of your planet
8. Disease unit
   1. Present a power point about your fatal disease you chose
   2. Watch the movie outbreak and complete packet
9. Creating a virus model
   1. Research how viruses spread
   2. Create a protocol for a specific virus
10. Invertebrates, vertebrates and evolution unit
    1. Choose one of the three topics to create a children’s book about
    2. Present to elementary classes
11. Ocean unit
    1. What does the ocean mean to you activity
    2. Human impact on the ocean activity
    3. Protecting the ocean activity
    4. An imbalance in our ocean activity
    5. Final opinion paper over the ocean unit
    6. Watch movie on creatures and monsters of the deep
12. Create your own expedition
    1. Read about Lewis and Clarks expedition
    2. Research on remote areas
    3. Create an expedition guide to be submitted to national geographic
13. Arctic and Antarctic/ ozone effects unit
    1. Create campaign
14. Preserving biodiversity unit
    1. Research an extinct animal and create a poster about it
15. Natural disaster unit
    1. The power of fire activity
    2. Research a natural disaster
    3. Create an experimental volcano
    4. Watch the movie volcano or twister
16. Earth day project
    1. Create a multi media game about human impact on the earth
    2. Research ways to decrease our impact and develop questions around your findings
17. Biome project
    1. Dude you have to move activity
18. Crime scene unit
    1. Fingerprinting
    2. Solve the murder activity
    3. CSI
    4. Food poisoning epidemic
19. Be a scientist for a day
    1. Think of an experiment you would like to test
    2. Research how you would test it: what tools you need, what your data will be, possible outcomes etc…
    3. Develop a report on what steps you would go through

End of semester 1!