**Grade 6**

**Science**

**Quarterly Study Guide**

**Take some time to review these concepts that we learned in the beginning of the school year til now.**

**Lab Safety –**

* Pages 200 – 201 in textbook. Appendix A
* PPEs
* Safety Equipment in classroom

**Scientific Method –**

* State the Problem
* Gather Information
* Make a Hypothesis
* Experiment
* Record Data
* Form Conclusion

**Microscope –**

* Pages 202 – 203 in textbook – Appendix B
* Parts of a microscope
* Total Magnification = Eyepiece X Objective Lens
* Wet Mount Slide vs. Dry Mount Slide

**Living Things –**

* Characteristics of Life
  + MR DRACULA
  + Purpose of using this list
  + Spontaneous Generation vs. Biogenesis
    - Redi – meat
    - Pasteur – broth
    - Both experiments prove living things CAN NOT come from non-living things!!!
* Classification of Organisms
  + Organization of organisms by similar traits
  + DKPCOFGS
  + Binomial Nomenclature – Genus species
  + Taxonomy is the study of how and why organisms are classified
* Domains and Kingdoms
  + Three Domains
    - Archaea
    - Bacteria
    - Eukarya
  + Cell Types – prokaryote vs. eukaryote
  + Cell Number – uni-cellular vs. multi-cellular
  + How they obtain food – autotroph vs. heterotroph

**Viruses –**

* Virus Structure
  + Protein coat
  + Genetic material
  + Microscopic
* Active vs. Hidden Virus Replication