**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