**Kingdom Review Guide**

***Bacteria/Virus***

1. Be sure to know the different shapes of bacteria.

2. Be sure to know how to name bacteria according to its shape and arrangement.

3. Identify all parts of a bacterium: cytoplasm, DNA, flagella, cell wall, pili, ribosomes, cell membrane

4. Be able to compare a virus and bacteria using 4 facts for each.

5. Be sure to know about each kingdom of bacteria and 2 examples for each.

6. What is the difference between gram stain positive and gram stain negative.

7. What type of viruses have DNA has its genetic material, what types have RNA?

8. Identify parts of a virus: capsid, genetic material, protein coat

9. Know the different between the 2 methods of how a virus can reproduce.

***Protist and Fungi***

1. Be sure to know the 3 main types of Protists and 1 example of each AND how they move.

2. Be able to identify an Amoeba, paramecium, and euglena.

3. Know the following parts of Protists: nucleus, cytoplasm, pseudopods, flagella, cilia, contractile vacuole, oral groove, eyespot, and pellicle

4. What is the only multicellular protist?

5. Be able to identify parts of a mushroom and zygomycota.

6. What is the basic building block of fungi?

7. What is the difference between lichen and mycorrhizae?

8. Do fungi have roots? Why or why not?

9. What are the only unicellular fungi?

***Plants***

1. Be sure to understand the flow-chart of how the Plant Kingdom is divided.

2. What are the tubes called in vascular plants?

3. What are the ways that a plant can “move?”

4. What are the types of stems?

5. What are the types of roots?

6. What is the difference between angiosperms and gymnosperms?

7. What is the difference between monocots and dicots?

8. What are the types of venations of a leaf?

9. What is the difference between an annual and a perennial?

10. What is the difference between a fruit or vegetable?

11. What are the parts of a flower? What are the functions of each?

***Animals***

1. What are the 5 main characteristics of ALL animals?

2. What are the types of skeletons?

3. What are the types of body cavities?

4. Be sure to know all of the 8 invertebrate phylum’s (the science name) AND the major characteristics about each (reproduction, examples, special characteristics.

5. Be sure to know the 3 classes associated with Phylum Mollusca.

6. Be sure to know the 5 classes associated with Phylum Arthropoda.

7. Be sure to know at least 2 organisms per each of the invertebrate phyums.

8. Be sure to know the name of the vertebrate phylum.

9. Be sure to know each of the 5 types of vertebrates and the characteristics about each.

10. Be sure to know at least 3 examples for each type of vertebrate.

11. What is the difference between anterior and posterior?

12. What is the difference between dorsal and vent