BIOLOGY II   ANITA MYERS BARKER   STEM-45

This semester class concentrates on the Animal Kingdom. We learn about the nine largest phylum in the Animal Kingdom which consists of both vertebrates and invertebrates. From the Chordata phylum, we learn about the five classes of vertebrate animals and compare them to our own species of humans: Homo sapiens. The class keeps an interactive notebook in which most of our notes are written from answering questions. We also dissect animals or do a paper model of their anatomy after we explore there organ systems. From learning the anatomy, we then talk about physiology, how all these organs work together to help the animal adapt and survive.

*REVIEW OF TAXONOMY

*INTRODUCTION TO THE ANIMAL KINGDOM

  -Vocabulary

  -Phylogeny maps

  -Review of organ systems

  -The nine largest phylum

*INTRODUCTION TO INVERTEBRATES

-the eight phylum that are invertebrates that we study

-Software on Invertebrates

-Notes and Quizzes on invertebrates

-Comprehensive exam on invertebrates.

*PHYLUM PORIFERA

-Model of a sponge

*PHYLUM CNIDARIA

*PHYLUM PLATYHELMINTHES-FLATWORMS

*PHYLUM NEMATATODA-ROUND WORMS

*PHYLUM ANNELIDA-SEGMENTED WORMS

Earthworm dissection and/or model

*PHYLUM MOLLUSCA

-Clam or Mussel dissection and/or model

-Squid dissection and/or model

*PHYLUM ARTHROPODA

-Crayfish dissection and/or model

-Grasshopper dissection

*PHYLUM ECHINODERMATA

-Starfish dissection and/or model

*INTRODUCTION TO VERTEBRATES

  -Software on Vertebrates

  -Notes and Quizzes

  -Comprehensive exam

  -The understanding of Chordata phylum

*PHYLUM CHORDATA-THE NON TRUE CHORDATES

*THE FIVE CLASSES OF VERTEBRATES-TRUE CHORDATES

*FISH CLASS- CYCLOSTOMATA/AGNATHA (JAWLESS FISH)

  -Dissection of a lamprey

*FISH CLASS- CHONDRICHTHYES (CARTILIAGE FISH)

  -Dissection of a shark and/or a model

*FISH CLASS- OSTEICHTHYES (BONEY FISH)

  -Dissection of a perch and/or a model

*CLASS AMPHIBIA

  -Dissection of a frog and/or a model

*CLASS REPTILIA

  -Model of a snake

*CLASS AVES (BIRDS)

  -Model of a bird

*CLASS MAMMALS

   -Dissection of fetal pigs and/or a model

   -Model of a cat

   -Model of a rat

*FINAL EXAM AND INTERACTIVE NOTEBOOK GRADE

GRADES WILL BE DETERMINED BY A POINT SYSTEM. ALL THE ABOVE PHLUM AND CLASSES WILL HAVE INTERACTIVE NOTEBOOK NOTES WHICH WILL ALSO BE PUT ON GOOGLE CLASSROOM FOR ASSESSABILITY OF INFORMATION. QUIZZES AND TEST GRADES WILL COME FROM NOTES AND DISSECTION OR MODELS THAT ARE PUT TOGETHER IN THIS CLASS.