**CLASSIFICATION UNIT GUIDE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| **3/21** \*Classifying  Activity | **3/22**\*Taxonomy notes and practice**HW CHECK:**  **Part A – Q 1-4** | **3/23**\*Kingdom  Matching Game | **3/24** \*Smiley face  Dichotomous  keys \*Vocabulary Quiz **HW CHECK:**  **Part B – Q 5-6** | **3/25****NO SCHOOL** |
| **3/28**\*Alien  dichotomous  key**HW CHECK:**  **Part B – Q 7-9** | **3/29****ENGLISH I EOC** | **3/30**\*Phylogenetic  tree | **3/31**Test ReviewUnit Guide Due | **4/1****UNIT TEST** |

**Read:** Chapter 17.1, 17.2, 17.4 **UNIT TEST**: **APRIL 1, 2016**

**Watch (Supplemental Resource - YouTube):**

* Taxonomy: Life’s Filing System
* Crash Course Biology #19
* Classification of Life (Bozeman Science)
* Classification of Living Things for Kids.

**Book online at:** [**http://my.hrw.com**](http://my.hrw.com)

Use your username and password to get to the biology book or

Username: student26761 Password: n8j2x

**Coach Schrock’s Website:** www.wheatleybiology.weebly.com

**What the state of Texas wants you to know!**

* TEKS 8A – Define taxonomy and recognize the importance of a standardized taxonomic system to the scientific community.
* TEKS 8B – Categorize organisms using a hierarchical classification system based on similarities and differences shared among groups.
* TEKS 8C – Compare characteristics of taxonomic groups, including Achaea, bacteria, protists, fungi, plants, and animals.

**Listen and Look**

Here is a list of key terms you will hear and see during the reading and video. Get to know them!

**VOCAB QUIZ: THURSDAY, MARCH 24TH**

* **Taxonomy:** branch of science concerned with classification of organisms.
* **Domain:** division of organisms that ranks above a kingdom in systems of classification that are based on shared similarities in DNA sequences.
* **Kingdom:** second highesttaxonomic category grouping together all forms of life having certain fundamental characteristics in common.
* **Phylum:** taxonomic category below kingdom that includes a large group of organisms that share one or more fundamental characteristics.
* **Class:** taxonomic category below phylum that includes a group of organisms that share a variety of fundamental characteristics.
* **Order:** taxonomic category below class that includes one or more families.
* **Family:** taxonomic category below order that includes one or more genus.
* **Genus:** taxonomic category below family that includes one or more species. It is used as the first word in a scientific name.
* **Species:** taxonomic category that includes individuals able to reproduce fertile offspring together.
* **Binomial Nomenclature:** scientific naming of species whereby each organism receives a genus and species name.
* **Phylogeny:** the evolutionary history for a group of species.

**Recall and Review: ANSWER ALL THE QUESTIONS IN COMPLETE SENTENCES.**

Use the videos and your textbook to help you answer the following questions in your binder.

1. **Chapter 17.1**
2. State the two ways Carolus Linnaeus classified living things.
3. Explain why biologists use scientific names.
4. Name each taxon in the Linnaean system of classification, from most general to more specific.
5. Describe the difference between a genus and a species.

|  |  |
| --- | --- |
| Genus | Species |
|  |  |

1. **Chapter 17.2**
2. State the three ways scientists base their identifications of evolutionary relationships.
3. Explain how a phylogenetic tree is similar to a family tree.
4. **Chapter 17.4**
5. State the three domains that exist in the tree of life.
6. Explain what distinguishes the three domains in the tree of life from each other.

|  |  |  |
| --- | --- | --- |
| Domain Name: |  |  |
| Explain |  |  |

1. Analyze. Why are protists, plants, fungi, and animals classified into the same domain but into different kingdoms?