

Taxonomy: Life's Filing System - Crash Course Biology Video

Watch the following video to answer the questions below:

<http://nerdfighteria.info/video/crashcourse/F38BmgPcZ I>

1. What is Taxonomy?
2. If we go back far enough every living thing is related to every living thing, meaning we all have what?
3. The trick of taxonomy is basically figuring out what?
4. To get that structure biologists use the taxonomic system to classify all the organisms on Earth. It is sometimes called _____ and it illustrates the evolutionary relationships between all living species.
5. Who is the Swedish scientist that developed this classification system because he saw that the current naming system would collapse and was too confusing?
6. The method of naming and classifying organisms that Linnaeus adopted was based on . . .
7. Although taxonomy has come a long way since Linnaeus, we are still using the same taxa groups to classify. List these groups below:

BROADEST: MOST INCLUSIVE



SPECIFIC: LEAST INCLUSIVE

8. We are also using binomial nomenclature, the use of a 2 part name for every species. What 2 names do we use to name an organism?
9. Now that we have new technology and can classify using genetic analysis and structure, we have stuck a new taxa above Linnaeus's kingdom. What is this more broad taxa called?

10. What are the domains 3 we have?
11. Bacteria and Archaea are _____, meaning they lack a nucleus. While Eukarya make up all life forms that have a _____.
12. Under the domain Eukarya, we have 4 kingdoms. List the 4 Eukaryotic Kingdoms below:
13. Plants, or Plantae, are autotrophs. Meaning they can do what?
14. The Protist Kingdom contains both autotrophs and heterotrophs. There are 3 types of protists: _____-like, _____ - like, & _____-like.
15. The fungus kingdom includes organisms like ...
16. Fungus has cell walls like plants, but instead of being made of cellulose, they are made of _____, which is the same material in the exoskeleton of a beetle.
17. Fungus are _____ like animals and break down their food and reabsorb the nutrients.
18. Animals are _____ and are _____, meaning we spend a lot of time hunting down food because we can't make it ourselves.