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Crash Course Biology (2012) #19: Taxonomy

Name: _____ Date: _____

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1. The science of classifying living things is called _____.
2. The _____ (also called the tree of life) illustrates evolutionary relationships among species.
3. All organisms share a _____ if you go far enough back in time.
4. Biologists group organisms into hierarchical _____ such as kingdom, phylum, class, order, family, genus, and species.
5. The two-part naming system that uses genus and species is _____.
6. Classifications based on shared ancestry use _____ traits rather than analogous (homoplastic) ones.
7. The highest rank above kingdom is _____.
8. The three of these are Bacteria, Archaea, and _____.
9. Bacteria and Archaea are _____ that lack a nucleus.
10. Within Eukarya, the four kingdoms are Protista, Fungi, Plantae, and _____.
11. Plants are _____ that make food by photosynthesis and have cellulose cell walls.
12. Fungal cell walls are made of _____, not cellulose.
13. Organisms that obtain energy by eating other organisms are called _____.
14. Some prokaryotes are _____, drawing energy from chemicals rather than light or food.
15. In binomial names like *Felis catus*, *Felis* is the _____ and *catus* is the _____.

Crash Course Biology (2012) #19: Taxonomy - KEY

1. The science of classifying living things is called **taxonomy**.
2. The **phylogenetic tree** (also called the tree of life) illustrates evolutionary relationships among species.
3. All organisms share a **common ancestor** if you go far enough back in time.
4. Biologists group organisms into hierarchical **taxa** such as kingdom, phylum, class, order, family, genus, and species.
5. The two-part naming system that uses genus and species is **binomial nomenclature**.
6. Classifications based on shared ancestry use **homologous** traits rather than analogous (homoplastic) ones.
7. The highest rank above kingdom is **domain**.
8. The three of these are Bacteria, Archaea, and **Eukarya**.
9. Bacteria and Archaea are **prokaryotes** that lack a nucleus.
10. Within Eukarya, the four kingdoms are Protista, Fungi, Plantae, and **Animalia**.
11. Plants are **autotrophs** that make food by photosynthesis and have cellulose cell walls.
12. Fungal cell walls are made of **chitin**, not cellulose.
13. Organisms that obtain energy by eating other organisms are called **heterotrophs**.
14. Some prokaryotes are **chemotrophs**, drawing energy from chemicals rather than light or food.
15. In binomial names like *Felis catus*, *Felis* is the **genus** and *catus* is the **species**.

15 Questions

Answer Key Included

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