

## Dichotomous Key for Classifying Organisms

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| 1.  | a) The organism is a prokaryote and has no nucleus<br>b) The organism is a eukaryote                                  | It is in Kingdom Archaeabacteria or Eubacteria<br>Go to 2                    |
| 2.  | a) The organism is an autotroph<br>b) The organism is a heterotroph   | Go to 3<br>Go to 4   |
| 3.  | a) The organism has cells organized into tissues<br>b) The organism is unicellular or does not have organized tissues | It is Kingdom Plantae, Go to 14<br>It is Kingdom Protista                    |
| 4.  | a) The organism is unicellular<br>b) The organism is multicellular  | Go to 16<br>Go to 5  |
| 5.  | a) The organism absorbs food, is a decomposer<br>b) The organism eats other organisms                                 | It is in Fungi Kingdom,<br>Go to 13<br>It is in Kingdom Animalia,<br>Go to 6 |
| 6.  | a) The organism does not have a backbone<br>b) The organism has a backbone  | Go to 11<br>It is in the phylum Chordatae,<br>Go to 7                        |
| 7.  | a) The organism does not have legs<br>b) The organism has legs  | It is in one of the fish classes<br>go to 8                                  |
| 8.  | a) The organism must be in water to reproduce<br>b) The organism can reproduce on land                                | It is in the class Amphibia<br>Go to 9                                       |
| 9.  | a) The organism lays eggs in shells<br>b) The organism gives birth to live young                                      | Go to 10<br>It in in the class Mammalia                                      |
| 10. | a) The organism has no feathers<br>b) The organism has feathers   | It is in the class Reptilian<br>It is in class Aves                          |
| 11. | a) The organism spends some time in water<br>b) The organism lives on land all of the time                            | Go to 12<br>It is class Insecta  |
| 12. | a) The organism has a hard surface<br>b) The organism does not have a hard surface                                    | It is in phylum Mollusca<br>Go to 17   |
| 13. | a) The organism is a mushroom<br>b) The organism reproduces by budding  | It is in the phylum Basidiomycota<br>It is in the phylum Ascomycota          |
| 14. | a) Reproduces by producing seeds<br>b) Reproduces by producing spores   | Go to 15<br>It is in the phylum Pterophyta                                   |

15. a) Produce flowers It is in the phylum Angiosperm  
b) Does not produce flowers It is in the phylum Gymnosperm
16. a) Cell walls are made of chitin It is in the Kingdom Fungi  
b) Cell walls are not made of chitin It is in the Kingdom Protista
17. a) It has a spiny surface It is in the phylum Echinoderm  
b) It has a smooth surface Go to 18
18. a) It has tentacles It is in the phylum cnideria  
b) It doesn't have tentacles It is in the phylum flatworm