**Dichotomous Key for Classifying Organisms**

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