Classification

1. Classification –
2. Why classify?
3.
4.
5.
6. Taxonomy –
7. Early classification
8. Aristotle –
9. Classification based on –
10. Problems –
11. Carolus Linaeus –
12. Classification based on –
13. Two important contributions
* Hierarchical classification –
* Binomial nomenclature –
1. Hierarchical classification –
2. At each level -
3. Naming Organisms
4. Scientific name –
5. Why not use common names?
6.
7.
8.
9. Names are written in \_\_\_\_\_\_\_\_\_\_ . Why?
10.
11.
12. Polynomial –
13. Binomial nomenclature -
14.
15.

1.

1. Rules for writing scientific names
2.
3.
4.
5.
6.
7.
8. Example:
9. What does a third name mean?
10.
11.
12. Abbreviating
13.
14. Example:
15. Dichotomous key –
16. How many kingdoms are there?
17. Began as \_\_\_\_\_\_\_\_:
18. Technology –
19. Light microscope –
20. Electron microscope –
21. Molecular analysis -
22. Became \_\_\_\_\_\_\_\_ - added:
23. Some say \_\_\_\_\_\_\_ - splitting:
24. Others say \_\_\_\_\_\_\_ - splitting:
25. Others say \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:
26. The trend is leading to -
27. What determines the kingdom?
28. Cell type
29. Prokaryotic –
30. Eukaryotic -
31. Cell number
32. Single celled –
33. Multi celled -
34. Feeding type
35. Autotrophic -
36. Heterotrophic -

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| --- | --- | --- | --- | --- |
| **Kingdom** | **Cell Type** | **Cell Number** | **Feeding Type** | **Example** |
|  |  |  |  |  |
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1. Phylogenetic trees –
2. Closely related species –
3. How are relationships determined?
4. Physical features –
* Problem:
1. Biochemistry -