**Classification and Phylogeny (Feb 13th) Name:**

**26.1 – 26.6 Reference (yellow book)** ------ Each species has two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. These are used together to give a precise reference to this species.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is given first and is always written with an \_\_\_\_\_\_\_\_\_\_\_ case letter. e.g. Homo. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ epithet follows the genus and is written in lower case e.g. sapiens

Therefore the species name for humans is Homo sapiens

**Rules of writing Binomial nomenclature:**

* If written by hand the name should also be underlined
* If typed the name should really be in italics but this convention is often ignored
* Often the name will be followed by another name in brackets e.g. (Dickson) which refers to the first person to scientifically identify the species.

|  |  |  |
| --- | --- | --- |
|  | Ex. 1: | Ex. 2: |
| Kingdom |  |  |
| Phylum |  |  |
| Class |  |  |
| Order |  |  |
| Family |  |  |
| Genus |  |  |
| Species |  |  |

**Terms to define:**

Phylogeny: Molecular systematics:

Convergent evolution: Cladogram:

Homologous structures: Clade:

Taxonomy: Binomial nomenclature