

Biology topic 3: Principles of classification

Classification:

What are the three domains?

What are the main taxonomic groups from largest to smallest?

D

K

P

C

O

F

G

S

What are the 5 eukaryotic kingdoms?

What is the binomial naming system?

Why do we classify organisms?

Species

Morphological species concept:

What are the limitations of using this model?

Reproductive/biological species concept:

What are the limitations of this model?

Other definitions of a species:

Ecological species model:

Mate-recognition species model:

Genetic species model:

Evolutionary species model:

DNA evidence

How is bioinformatics being used to identify species?