

Cladistics - classification based on common ancestry

Evidence for cladistics

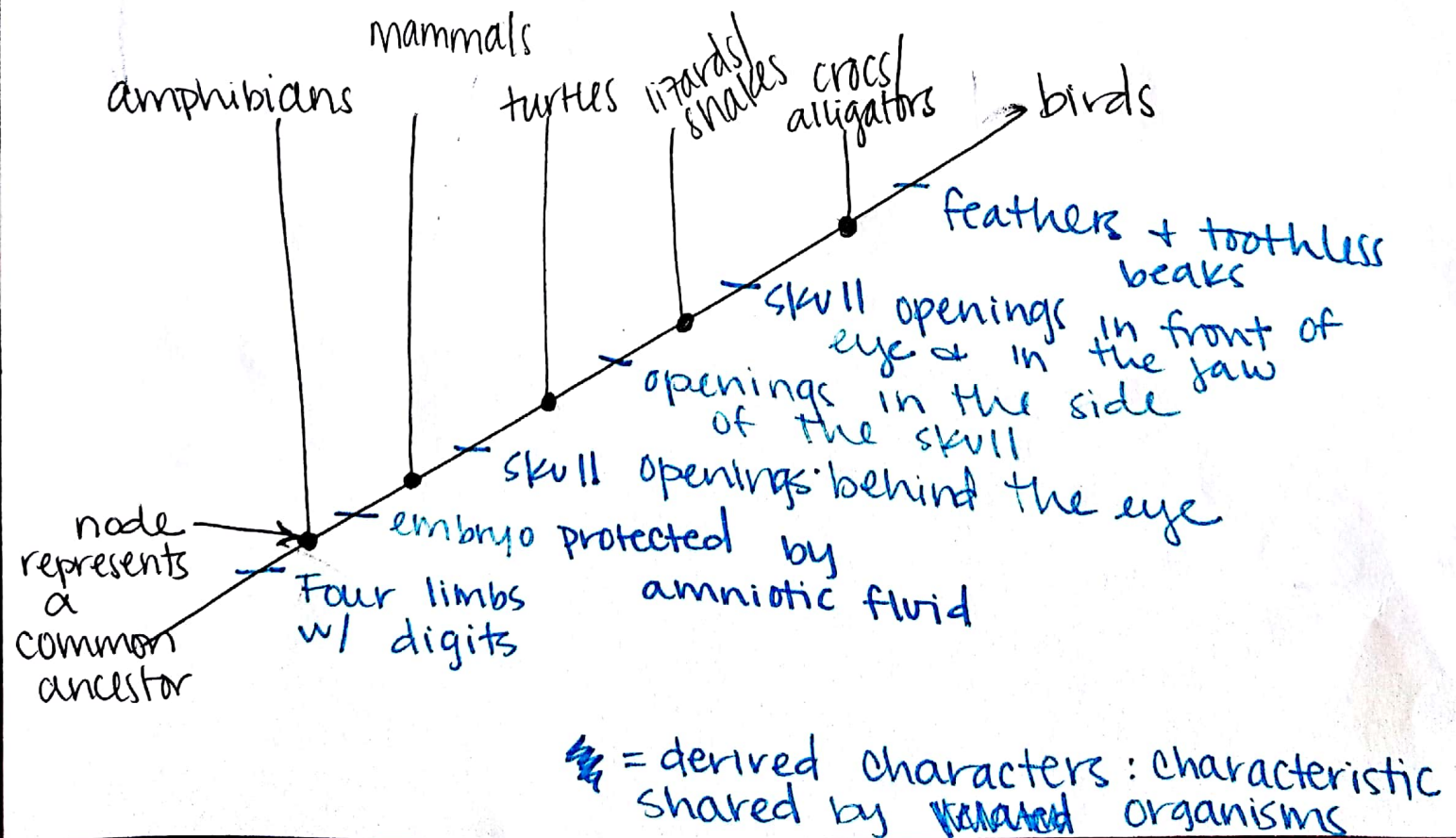
1. fossils
2. molecular DNA
3. living species

Phylogeny: evolutionary history of a species

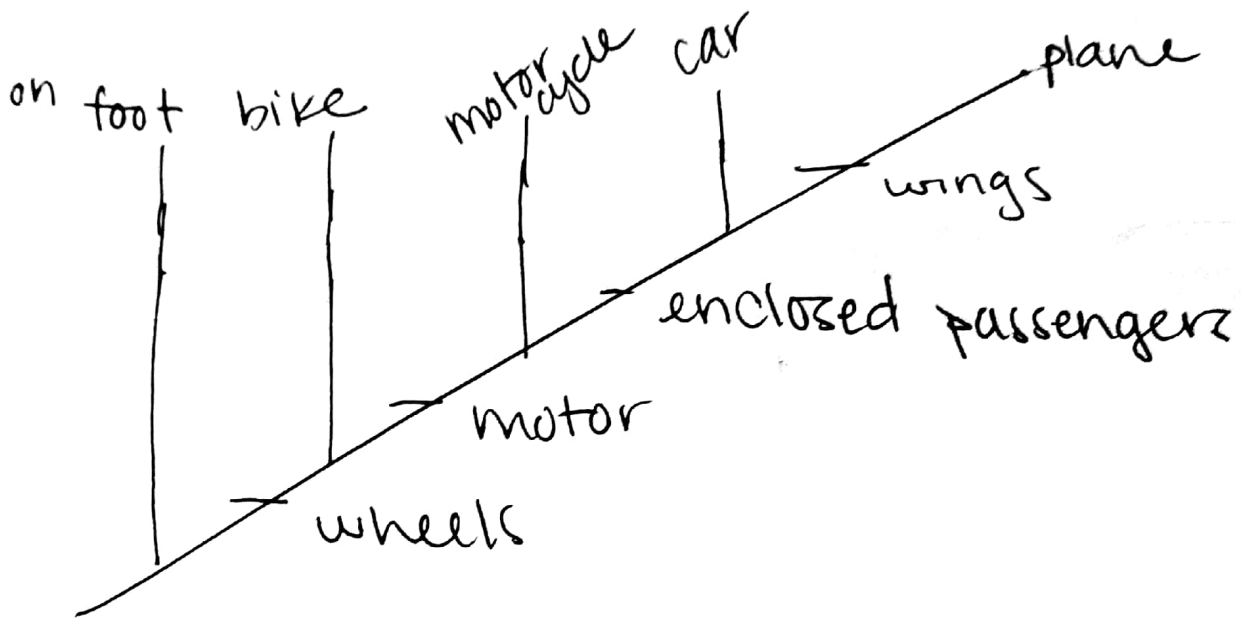
Goal of cladistics:

is to place organisms in the order in which they descended from a common ancestor.

Cladogram: evolutionary tree that proposes how species may be related



Clade: group of species that share traits derived from a common ancestor



outgroup: group that has none of the characteristics labeled on the cladogram