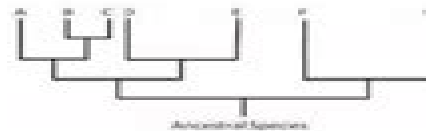


Principles of Biology
Unit 7: Macroevolution
Phylogenetics

Evolutionary Trees

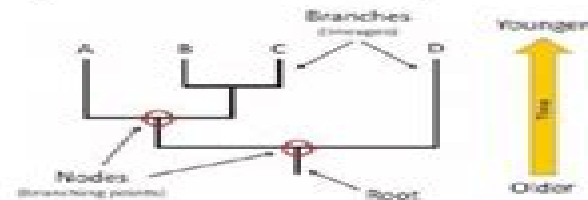
-Different mechanisms can cause portions of the same population become different from one another. If these populations become different enough, they can be considered to be different species. The relationship between the shared ancestral species and the two new species that have formed can be displayed as an evolutionary tree, also called a phylogeny. Phylogenies are similar to family trees in that they trace the relationship between different members of the tree. However, while family trees have information about individuals at different points in the tree, phylogenies we often have only information about species that are currently existing, and information about previous species must be inferred based on evidence gathered from these existing species. Also, while family trees are often branched outward as they extend backwards in time to find an individual's ancestors, phylogenies branch outward as they move forward in time. This is because phylogenies examine how one species form a new species.

-For example, the ancestral species shown here has split to form two species sometime in the past. At some point after that, these species split into additional new species. This process can happen repeatedly and can result in a complicated family tree.



Phylogenies

-Phylogenies can contain a lot of information and different parts of the phylogeny have different meanings. In the following phylogeny, lower down corresponds to later or more ancient time periods and higher up corresponds to more recent time periods. We will use this orientation, but phylogenies can be written with other orientations as well. The root marks the starting point for a phylogeny and the oldest common ancestor for all of the species being examined. Vertical lines are called branches and correspond to different species, also called lineages. The circled areas are called nodes and indicate when one species has split to form two different species.



Ap Biology Macroevolution Unit Exam

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