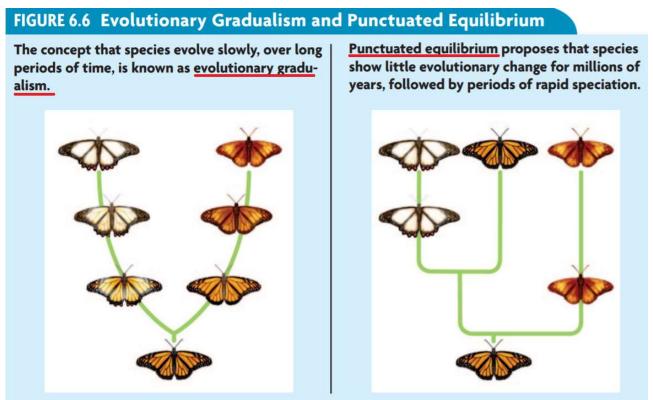
## 11.6 Patterns in Evolution

- Speciation often occurs in patterns.
  - A pattern of punctuated equilibrium exists in the fossil record.
    - bursts of evolutionary activity (speciation) are followed by long periods of stability (little evolutionary change)
    - theory proposed by Eldredge and Gould in 1972
    - revised Darwin's idea that species arose through gradual transformations

## 11.6 Patterns in Evolution

- Speciation often occurs in patterns.
  - A pattern of evolutionary gradualism exists in the fossil record.
    - evolutionary changes are thought to occur over long periods of time



## 11.6 Patterns in Evolution

- Speciation often occurs in patterns.
  - Many species evolve from one species during adaptive radiation.

ancestral species diversifies into many descendent species

 descendent species usually adapted to wide range of environments

