

What Is Evolution?

Final assessment

Question

Biologists have concluded that living species are the descendants of common ancestral species. How would biologists explain how new species emerge over time while others become extinct?

Instructions

- **1.** Briefly outline the science ideas (evidence) from each of the topic areas below that would support this explanation. Be sure your outline includes the ideas in parentheses.
 - a. Shared Biochemistry (include DNA and proteins)
 - b. Common Ancestry (include DNA, fossils, anatomy, embryos)
 - c. Heredity (include mutation, alleles, allele shuffling, genetic variation)
 - d. Natural Selection (include variation, heritability, reproductive advantage, change over time)
 - e. Speciation (include reproductive isolation, natural selection, species)
- 2. Put the concepts and information from your outline together in way that answers the question (How would biologists explain how new species emerge over time while others become extinct?).