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learn about the theory of evolution and how it is supported by instances of direct observation the existence of homologies and fossils and certain biogeographical patterns evolution is the process of adaptation through mutation which allows more desirable characteristics to be passed to the next generation over time organisms evolve more characteristics that are beneficial to their survival human evolution is the lengthy process of change by which people originated from apelike ancestors scientific evidence shows that the physical and behavioral traits shared by all people originated from apelike ancestors and evolved over a period of approximately six million years the evidence for evolution is found at all levels of organization in living things and in the extinct species we know about through fossils fossils provide evidence for the evolutionary change through now extinct forms that led to modern species in biology evolution is change in the heritable characteristics of biological 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