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biological evolution is the process of change and diversification of living things over time and it affects all aspects of their lives morphology form and structure physiology behaviour and ecology underlying these changes are changes in the hereditary materials

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evolution is the change in inherited traits that occurs in a group of organisms over multiple generations inherited traits are those that are passed from parents to offspring via genes evolution is made possible by genetic variation or gene differences in a population

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evolution as related to genomics refers to the process by which living organisms change over time through changes in the genome such evolutionary changes result from mutations that produce genomic variation giving rise to individuals whose biological functions or physical traits are altered

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evolutionary genetics is the study of how genetic variation leads to evolutionary change it includes topics such as the evolution of genome structure the genetic basis of speciation and

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it took a further three decades for genetic knowledge to be firmly incorporated into theoretical models of evolution that could be tested against data on natural and human populations leading to the modern evolutionary synthesis of the 1930s and 1940s

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this module begins the transition to evolutionary genetics by looking at the relative contributions of genetics and environment to traits and also introduces how population growth is studied

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all evolution means is that a population is changing in its genetic makeup over generations and the changes may be subtle for instance in a wolf population there might be a shift in

the frequency of a gene variant for black rather than gray fur sometimes this type of change is due to natural selection

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