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evolution is the change in the heritable characteristics of biological populations over successive generations it occurs when evolutionary processes such as natural selection and genetic drift act on genetic variation resulting in certain characteristics becoming more or less common within a population over successive generations evolution theory in biology postulating that the various types of living things on earth have their origin in other preexisting types and that the distinguishable differences are due to modifications in successive generations human evolution the process by which human beings developed on earth from now extinct primates viewed zoologically we humans are homo sapiens a culture bearing upright walking species that lives on the ground and very likely first evolved in africa about 315 000 years ago evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise evolution 101 an introduction to evolution what is evolution and how does it work the history of life looking at the patterns change over time and shared ancestors mechanisms the processes of evolution selection mutation migration and more microevolution evolution within a population speciation how new species arise in some cases the evidence for evolution is that we can see it taking place around us important modern day examples of evolution include the emergence of drug resistant bacteria and pesticide resistant insects evolution is a process that results in changes in the genetic content of a population over time there are two general classes of evolutionary change microevolution and macroevolution 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 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 darwin defined evolution as descent with modification the idea that species change over time give rise to new species and share a common ancestor the mechanism that darwin proposed for evolution is natural selection 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 biological evolution is defined as change in the heritable characteristics of a population over succeeding generations in more technical terms evolution is defined as change in the gene pool of a population measurable as changes in allele frequencies in a population evolution is a process that results in changes in the genetic material of a population over time evolution reflects the adaptations of organisms to their changing the theory of evolution is a shortened form of the term theory of evolution by natural selection which was proposed by charles darwin and alfred russel wallace in the nineteenth century science and science based technologies have transformed modern life they have led to major improvements in living standards public welfare health and security they have changed how we view the universe and how we think about ourselves in relation to the world around us evolution is the process by which modern organisms have descended from ancient ancestors evolution is responsible for both the remarkable similarities we see across all life and the amazing diversity of that life but exactly how does it work here we ll find out mark ridley s evolution has become the premier undergraduate text in the study of evolution readable and stimulating yet well balanced and in depth this text tells the story of evolution from the history of the study to the most revent developments in evolutionary theory evolution definition 1 the way in which living things change and develop over millions of years 2 a gradual process learn more ipa guide other forms evolutions evolution means the process of developing by gradual changes a rock star might discuss her evolution as a musician for example in biology evolution refers to genetic change in species or populations over time evolution usually refers to a process that produces a better or more complex form labelling objects individuals or ideas with learned sounds vocal labelling is crucial for human language but the evolution of this ability is poorly understood personal names are a type of

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