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evolution of population

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now along the evolutionary path have we stopped evolving and what does it mean if we have find out more about the open university s natural sciences qualifications evolutionary concepts first appeared in early greek writings for example in the work of anaximander and empedocles evolution of populations section 16 1 genes and variation pages 393 396 this section describes the main sources of inheritable variation in a population it also explains how phenotypes are expressed darwin s ideas revisited page 393 1 is the following sentence true or false evolution of cells refers to the evolutionary origin and subsequent evolutionary development of cells cells first emerged at least 3 8 billion years ago approximately 750 million years after earth was formed prentice hall biology chapter 16 evolution of populations 16 1 genes and variation 16 2 evolution as genetic change 16 3 the process of speciation chapter 16 evolution of populations i genes and variation a lack of knowledge left two big gaps in darwin s thinking 1 he had no idea how heritable traits pass from one generation to the next 2 although variation in heritable traits was central to darwin s theory he had no idea how that variation appeared b how common is genetic section 16 2 evolution as genetic change pages 397 402 this section explains how natural selection affects different types of traits it also describes how populations can change genetically by chance as well as the conditions that prevent populations from changing genetically

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it describes the evolution of populations and species from small scale changes among individuals to large scale changes over paleontological time periods to understand how organisms evolve scientists can track populations allele frequencies over time

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summary 16 1 genes and variation darwin s original ideas can now be understood in genetic terms beginning with variation we now know that traits are controlled by genes and that many genes have at least two forms or alleles we also know that individuals of all species are heterozygous for many genes

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in biology evolution is any change across successive generations in the heritable characteristics of biological populations evolutionary processes give rise to diversity at every level of biological organization from kingdoms to species and individual organisms and molecules such as dna and proteins

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key points humans began to evolve about seven million years ago and progressed through four stages of evolution research shows that the first modern humans appeared 200 000 years ago neanderthals were a separate species from humans although they had larger brain capacity and interbred with humans they eventually died out

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