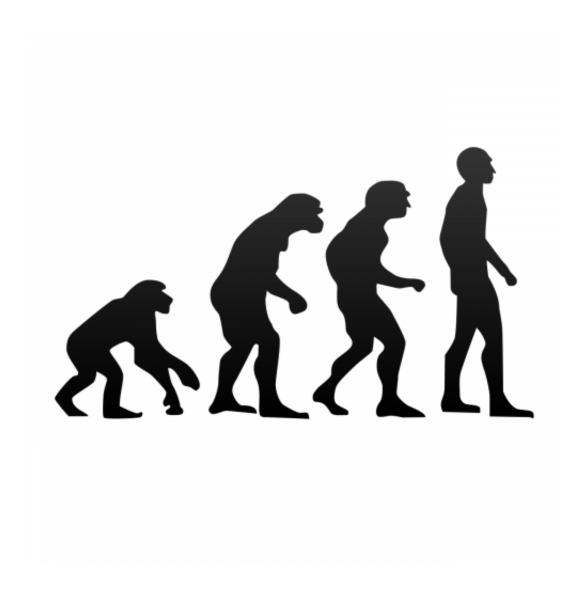


Evolution Quiz: questions and answers





| 1. What is evolution? |
|--|
| The permanent alteration of the nucleotide sequence of the genome of an organism, virus, or extrachromosomal DNA or other genetic elements |
| The change in the frequency of an existing gene variant (allele) in a population due to random sampling of organisms |
| The change in the heritable characteristics of biological populations over successive generations |
| 2. Who were the proponents of the scientific theory of evolution? |
| O Charles Darwin and Gregol Mendel |
| Alfred Russel Wallace and Gregor Mendel |
| O Charles Darwin and Alfred Russel Wallace |
| 3. When did the last universal common ancestor (LUCA) live? |
| O 3.5 - 3.8 billion years ago |
| O 2.7 - 3.1 billion years ago |
| O 7.2 - 7.8 billion years ago |
| 4. Which Greek philosopher proposed that the first animals lived in water? |
| O Anaximander |
| O Empedocles |
| O Plato |
| 5. What kind of plants did Gregor Mendel use in his experiments? |
| O Coffee plants |

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| O Pea plants |
|--|
| O Brown algae |
| |
| 6. What does Mendel's law of segregation state? |
| Some alleles are dominant while others are recessive; an organism with at least one dominant allele will display the effect of the dominant allele |
| O During gamete formation, the alleles for each gene segregate from each other so that each gamete carries only one allele for each gene |
| O Genes for different traits can segregate independently during the formation of gametes |
| 7. What is the game since to change in the DNA common of a cellla common. |
| 7. What is the name given to changes in the DNA sequence of a cell's genome? |
| O Pangenesis |
| O Mutations |
| O RNA interference |
| |
| 8. The two-fold cost of sex was first described by: |
| O Brian Goodwin |
| O Stuart Kauffman |
| O John Maynard Smith |
| |
| 9. Who is the author of "On the Origins of Species"? |
| O Carl Correns |
| O Gregor Mendel |
| O Charles Darwin |
| |
| 10. Natural selection is: |
| O The differential survival and reproduction of individuals due to differences in phenotype |
| An illness that lasts for a long period of time or indefinitely |
| The transference of genes from one population to another, usually as a result of migration |



Evolution Quiz: questions and answers

Right answers

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The change in the heritable characteristics of biological populations over successive generations

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Charles Darwin and Alfred Russel Wallace

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