Continuity of Life Revision

Vocabulary

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| Variation |  |
| Adaptive Radiation |  |
| Mutation |  |
| Speciation |  |
| Extinction |  |
| Natural Selection |  |
| Artificial Selection |  |
| Sexual Selection |  |
| Evolution |  |
| Genetic Variation |  |
| Species |  |
| Gene Pool |  |
| Gene |  |
| Allele |  |
| Genetic Diversity |  |
| Disruptive Natural Selection |  |
| Stabilising Natural Selection |  |
| Directional Natural Selection |  |

1. Describe three sources of genetic variation between individuals in a population.

1. Over the Earth's history many species of organisms have evolved, flourished for a while

and then become extinct. List three factors that may have contributed to these extinctions.

a.

b.

c*.*

1. How is evidence from each of the following put forward to help support the idea that

evolution has occurred:

a. Embryology:

b. Biochemistry:

c. Structural homology

d. Fossils

1. Explain how the use of an antibiotic might select for resistance in a bacterial species.

1. Describe how one species can diverge to form two species, during the process of speciation.

1. For evolutionary change to take place, variation within a species is essential
   1. Describe three (3) processes that occur during sexual reproduction to produce this variation

* 1. Explain how natural selection contributes to the evolution of one species into two separate species

1. Explain the importance of barriers to gene flow in the process of speciation

1. Describe the process of allopatric speciation