

Biology 11 Adaptation and Evolution Review Sheet

1. Define:

- DNA
- Gene
- Chromosome
- Nucleotide
- Evolution
- Sexual reproduction
- Mutation
- Fossil
- Fossil record
- Natural selection
- Survival of the fittest
- Species
- Adaptation
- Adaptive radiation
- Speciation
- Allele
- Allelic / relative frequency
- Heterozygous
- Homozygous
- Non - random mating
- Gene pool
- Gene flow
- Recombination (crossing over)
- Genetic drift
- Convergent evolution
- Analogous structures
- Divergent evolution
- Homologous structures
- Vestigial structures
- Gradualism
- Punctuated equilibrium
- Endangered species
- Extinction
- Stabilizing / directional / disruptive selection

2. Know the structure and function of DNA.

3. Explain the role of DNA in evolution.

4. Explain the role of sexual reproduction in evolution.

5. Where do we find evidence for evolution?

6. Explain the theory of natural selection.

7. Explain factors increasing genetic variation.

8. Explain factors decreasing genetic variation

9. Compare and contrast convergent evolution and divergent evolution

10. Differentiate between gradualism and punctuated evolution.

11. How is extinction involved in evolution?

12. Know the Geological Time Scale worksheet.