**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

1. Know the structure and function of DNA.
2. Explain the role of DNA in evolution.
3. Explain the role of sexual reproduction in evolution.
4. Where do we find evidence for evolution?
5. Explain the theory of natural selection.
6. Explain factors increasing genetic variation.
7. Explain factors decreasing genetic variation
8. ~~Compare and contrast convergent evolution and divergent evolution~~
9. ~~Differentiate between gradualism and punctuated evolution.~~
10. How is extinction involved in evolution?
11. ~~Know the Geological Time Scale worksheet.~~