**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.~~