Mathematical Biology — Evolutionary Genetics

Introduction to Biological Evolution Homework Set 1

 Give definitions of each of the following. You should be able to find all of the terms in a freshman-level biology text.

1. evolution	5. stabilizing selection	9. adaptation
2. natural selection	6. diversifying selection	10. differential reproduction
3. artificial selection	7. catastrophism	11. speciation
4. directional selection	8. uniformitarianism	12. convergent evolution

- 2. You are a *Homo sapiens* (that is, you are of the genus *Homo* and the species *Homo sapiens*). What are your kingdom, phylum, subphylum, class, order, and family?
- **3.** Darwin's theory of evolution is sometimes popularly called "survival of the fittest." Is this a reasonable characterization?