

Worksheet for Chapter 22

1. The unifying theme of biology is _____.
2. _____ is the changes in organisms over time.
3. What is meant by the scientific terms fact, hypothesis, and theory?
4. What important ideas did each of the following people contribute to Western ideas about evolution?
 - a. Aristotle
 - b. Lamarck
 - c. Lyell
 - d. Malthus
 - e. Wallace
5. _____ coined the term of species by means of natural selection in the year _____.
6. Evolution by natural selection requires _____, _____, and _____.
7. Darwin noticed that the finches on the Galapagos Islands were _____ (more like) the finches in South America than the finches on other islands.
8. _____ is the synthesis of hereditarily material about _____ and Darwin's ideas about _____.
9. What are the five types of evidence that all support the theory of evolution by natural selection?
 - a) What is the difference between natural selection and artificial selection?
 - b) What are fossils?
 - c) What is meant by the terms homologous structures and vestigial structures?
 - d) What are some examples of evolutionary adaptation?
 - e) What is the evidence that man evolved?
10. What is meant by the following terms:
 - a. population
 - b. gene pool
 - c. interbreeding
 - d. species
11. What are the 5 main conditions for Hardy Weinberg equilibrium?
12. Be sure you can read through figure 22.7!