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## Chapter 10 Concept Review

**Directions**: Answer the following questions using your notes and textbook 1. Evolution- process of biological change by which come to differ from their . 2. Carolus Linnaeus (1700's)- developed system to name living things (grouped by similarities) 3. Erasamus Darwin- Darwin's grandfather. Proposed that all living things were descended from a common 4. Jean-Baptiste Lamarck -proposed theory that all organisms evolved toward and .. a. Proposed changes in environment caused an organism behavior to change, leading to greater use or disuse of a \_\_\_\_\_ or \_\_\_\_. b. Organism then passed changes on to \_\_\_\_\_ 5. Charles Lyell (1830)- published "Principles of Geology". Also said Earth must be very \_\_\_\_\_. Said changes in Earth occurred at constant over time 6. Noticed variations well suited to animals environment (variation- differences in traits) 7. Studied birds, tortoises and said somehow adapt to their surroundings (adaptation- a feature that allows an organism to better in environment) 8. Artificial Selection- process by which humans change a species by it for certain traits 9. Darwin compared what he learned about \_\_\_\_\_ to his idea of adaptation 10. Said that in nature, \_\_\_\_\_ creates selective pressure instead of humans in artificial selection 11. Natural Selection- mechanism by which \_\_\_\_\_ is selective agent

12. Said adaptations aroundification)	se over many	(called process "decent with		
13. 4 main principles to the	neory of natural selection	n		
a	variations in	variations in populations are basis for natural selection.		
b (creates competition	organisms on)	organisms produce more offspring than will survive		
c and individuals are	Some adape "naturally selected" to	otations allow organism to survive at survive and produce offspring	t higher rate	
d result in species w	with ith adaptations that are	Over time, natural s well suited for survival	election will	
14. Fitness- measure of a relative to other members	ability tos of a population	and produce more		
15. Natural selection acts	on	(not genetic material itse	lf)	
16. As environment chan	ges, different traits will	become		
17. The different environments, and beak shapes	ments on each island le	d to specific	in diets,	
18. Embryology- Similarit	ies in embryos showed	relationships between organisms a	ınd possible	
	ancestor			
19different functions (sugge	structures- feat	tures that are similar in structure but (i.e. forelimbs of vertebrates)	t have	
20similar in origin (i.e. wing	structures-structs of bats and insects)	ctures that perform similar function I	but are not	
21function that had a function	structures- structures structure structures	ures or organs that seem to lack any	y useful	
22. Fossils provide a	of evolut	ion		
23	study of fossils	or extinct organisms		
24evidence	and	evidence support fossil an	d anatomical	
25. DNA sequence analy DNA	sis- more closely	have more		