Geology	[,] 105 –	Earth	History	y
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Name:		
Date:		

Natural Selection and Adaptation Homework

http://www.pbs.org/wgbh/evolution/library/faq/cat01.html

Go to OAKS and download the three readings (For reading #1, DO NOT READ THE FULL ARTICLE, only the first 6 pages). Print this assignment and answer the following questions, and be prepared to answer similar questions on the in-class quiz next week.

1.	Give a definition for evolution.	
2.	Give a definition for natural selection.	
3.	Can muscle mass gained from exercise be passed on to the next generation? IE, is this a heritable genetics?	e trait linked to
4.	Is beak size in medium and small ground finches a heritable trait?	
	What seed plant did all of the finches living on Daphne Major eat?	
	Which plant was only eaten during drought?	
	If there is a drought on Daphne Island (a La Niña year), what kind of birds would you expect to s	urvive, and why?
8.	What if there is a flood on Daphne Island (an El Niño year)?	
9.	What is the scientific definition of a "theory"?	
	Has the theory of evolution ever been scientifically unproven? Is a chimpanzee the direct ancestor of human beings? Why or why not?	
12.	Give the definition of a species	
13.	. Is genetic variation a random or non-random process? Explain	
14.	. Is natural selection a random or non-random process? Explain	
15.	. Do individuals evolve?	
	. Do species evolve?	
17.	. How long ago did the ancestor of Darwin's finches (a blueblack grassquit) reach the Galapagos f	rom South
	America?	
18.	. What makes Daphne Major a good place to study natural selection in the wild?	
19.	Does natural selection only take place slowly and gradually, over long periods of time?	
20.	. What factor besides beak size is affecting the evolution of Darwin's finches?	-