

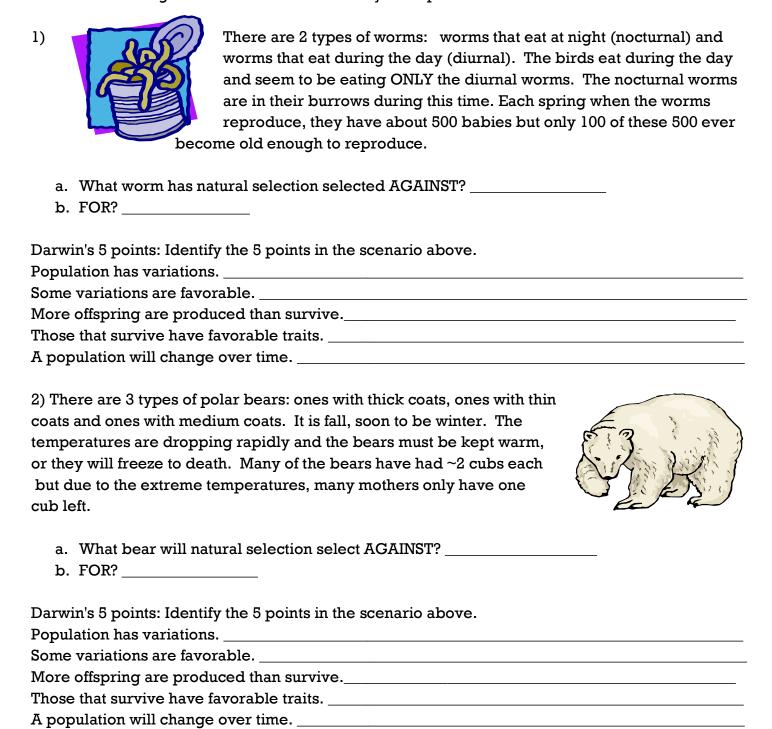
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LG #15: Outcomes of Genetics Darwin's Natural Selection Worksheet

Read the following situations below and identify the 5 points of Darwin's natural selection.



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In ostriches, there are 2 types: ones that run fast and those that run slowly. The fast birds can reach up to 40 miles an hour. Jackals love to eat ostrich, and they can reach speeds of up to 35-40 miles per hour. A flock of ostrich will lay $\sim 10$ eggs (each mother only lays 1 but many rodents break into the eggs and eat the fetus before they			
hatch.			
a. What ostrich will natural selection select AGAINST?			
b. FOR?			
Darwin's 5 points: Identify the 5 points in the scenario above.			
Population has variations.			
Some variations are favorable			
More offspring are produced than survive	_		
Those that survive have favorable traits.			
A population will change over time			
1) There are two types of rabbits: those that strictly eat grass and those			
that strictly eat berries and flowers. A drought occurs one year, and the			
plants have difficulty producing any extras (flowers, berries, etc.).			
They can only try and keep themselves green. The rabbits have			
had babies all year long but many are eaten by foxes or hawks			
Due to the drought, many have starved to death.			
a. What rabbit will natural selection select AGAINST?			
b. FOR?			
Darwin's 5 points: Identify the 5 points in the scenario above.			
Population has variations.			
Some variations are favorable			
More offspring are produced than survive.			
Those that survive have favorable traits.			
A population will change over time.			

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5) Bob believes that giraffes have long necks because they have stretched their necks to try and reach food that is high in trees. Since the parent had stretched its neck, it passed the long neck on to its offspring.

Ryan believes that giraffes have long necks because the ones with long necks were able to reach the food, and those with short necks could not and died. The long necked giraffes reproduced, and soon all of the giraffes had long necks.

a. Who thinks like Lamarck?	
b. Who thinks like Darwin?	