Notes – Natural Selection

1.	Lamarck						
	a.	Lamarck (early 1800s) believed organ	nisms evolve	d through inherit	ance of		
		character	istics.	LAMARCK'S GIRAFFE		stretching neck	
	b.	However, the inherited characteristic	cs were	Keep	becomes stretching and progr	mes ressively	
		during you	ır lifetime	neck leave	to reach stretching shigher	, M. S.	
		and the modifications could be passe	ed onto	Original up or short-necked ancestor	n tree		
		your offspring.		ancestor Age 20			
2.	Darwin						
	a.	Observed the world during his voyag	e on the				
	b.	Published		\$4.00 B			
		<i>"</i>	in				
		1959		ALL THE PARTY	de devel de	§ 8	
	c.	*Darwin's ideas are the basis of the t	heory of				
		He n		manufaction make his	dente interest beater interest	Consider	
		provided f			Driven by inner "need"		
		organisms change throughout time b		they chang	e.		
3.	Darwin'	arwin's Four Postulates:					
	a.	Individuals in a population differ from	n one anothe	er. (Diversity or _		_)	
	b.	. Some differences are due to charac	teristics that	are passed down	n from parent to chil	d.	
		(var	iation)				
	c.	More offspring are produced than ca	n survive, so	some will		_ and	
		reproduce and others will not.					
	d.	Survival and reproduction depend or	n advantaged	ous	Those with tr	raits that	
		give them an	will surviv	ve and have	offspring t	:han those	
		that do not have advantageous traits).				
4.	Natural	Selection					
	a.	Natural Selection is also known as			beca	use each	
		species has descended with changes from other species over time.					
b. Natural Selection is also known as "				_" meaning			
	that the most fit organism in the environment will survive.						
	C.		refers	to an organism'	s ability to survive ar	nd	
		reproduce.					
	d.	Adaptations are			give organisms an		
		in thei	r environmer				
	e.	Over(<u>)</u> ad	aptations can change	e.	
	f.	Natural Selection explains the	-		N. V.	No	
		changes in					
							
		over time.	de Lamarck	KVIVI	WALL I	W(IN)	
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			théorie	TALLY.			
			de Darwin -	ALL MAN TO THE REAL PROPERTY AND THE PARTY A			

	g.	Natural selection is a of evolution, meaning it					
		causes evolution.					
	h.	h. It causes changes inover time.					
	i.	Remember that natural selection selects/works on					
	j.	For, evolution to occur the must change over time.					
	k.	Meaning the individuals must pass their traits on to the next					
	I.	Remember that natural selection chooses traits that are best for a particular					
		environment. Nature does not create individuals no					
		does it give organisms what they need.					
	m.	Individual'swhen selected.					
	n.	By passing on genes that confer an advantage, they can cause the population to					
		.					
	0.	The number of the advantageousbecomes more					
		frequent.					
5.	Artificia	al Selection					
	a.	breeding					
	b.	provides minor variations					
	c.	select which variations are desirable					
6.	Pattern	s of Natural Selection					
	a.	Selection					
		i. Selectsvalue					
		ii. Example: Longer nose of anteater is selected for.					
	b.	Selection					
		i. Favorsvalue					
		ii. Example: Small lizards can't defend territory and large					
		lizards are easily eaten, so average size lizards are					
		selected for.					
	c.	Selection					
		i. Favorsextremes					
	d.	Example: Light and dark clams survive better in light and dark sand. The yellow can't					
		blend.					