Name:	Date:	Period:	
		The state of the s	

Darwin's Natural Selection

iii.

iv.

Rea	d the follo	owing s	situations and identify the 4 points of Darwin's natural selection.		
1.	There are	(di	s of worms: worms that eat at night (nocturnal) and worms that ear urnal). Birds eat during the day and seem to be eating ONLY the dicturnal worms are in their burrows during this time. Each spring when y have about 500 babies but only 100 of these 500 ever become old	urnal worms	. The s reproduce,
	a.	Whic	ch worm has natural selection selected AGAINST?	FOR?	
	b.	Ident	ify Darwin's 4 points in the scenario above.		
		i.	How does the population have variation?		
		ii.	Which variation is an adaptation (beneficial)?		
		iii.	How is the population overproducing?		
		iv.	Which population will descend with modification?		
	with n	nediun ing qui	types of polar bears: bears with thick coats, bears with thin coats, are coats. It is the fall season and will soon be winter. The temperature tickly and the bears must be kept warm or they will freeze to death. It ach, but due to the extreme temperatures many mothers only have or	es are Many of the	bears have
	a.	Whic	ch bear will natural selection select AGAINST?	FOR?	
	b.	Ident	ify Darwin's 4 points in the scenario above.		
		i.	How does the population have variation?		
		ii.	Which variation is an adaptation (beneficial)?		

How is the population overproducing?

Which population will descend with modification?



3.	In ostr	iches,	there are two types: ostriches that run fast and others that run slowly. The fast birds can	
	es]	re	ach up to 40 miles per hour. Jackals love to eat ostrich and they can reach speeds of up to	
	R	35	5-40 miles per hour. A flock of ostriches will lay about 10 eggs (each mother only lays 1	
		eg	g) but many rodents break into the eggs and eat the fetuses before they hatch.	
	a.	Whic	h ostrich will natural selection select AGAINST? FOR?	
	b.	Ident	fy Darwin's 4 points in the scenario above.	
		i.	How does the population have variation?	
		ii.	Which variation is an adaptation (beneficial)?	
		iii.	How is the population overproducing?	
		iv.	Which population will descend with modification?	
4.			o types of rabbits: rabbits that eat only grass and rabbits that eat only berries	
	and flo	owers.	A drought occurs one year and the plants have difficulty producing extra parts	
	(flowe	rs, ber	ries, etc.). They can only try to keep themselves green. The rabbits have had	
	babies	all yea	ar long but many are eaten by foxes or hawks. Due to the drought, many have starved to	
	death.			
	a.	Whic	h rabbit will natural selection select AGAINST? FOR?	
	b. Identify Darwin's 4 points in the scenario above.			
		i.	How does the population have variation?	
		ii.	Which variation is an adaptation (beneficial)?	
		iii.	How is the population overproducing?	
		iv.	Which population will descend with modification?	
5.	Some	giraffe	s have longer necks and others have shorter necks. The leaves that giraffes prefer to eat	
	grow i	n tall t	rees that some giraffes cannot reach very well. Giraffes usually have 1 calf every	
	other y	ear, th	ough sometimes food and water are scarce and the calf does not always survive.	
	a.	Whic	h giraffe will natural selection select AGAINST? FOR?	
	b.	Ident	ify Darwin's 4 points in the scenario above.	
		i.	How does the population have variation?	
		ii.	Which variation is an adaptation (beneficial)?	
		iii.	How is the population overproducing?	
		iv.	Which population will descend with modification?	

