Name:	Date:	Period:
Examples of Natural Selection		
Directions: For each of the examples, reacomplete each table.	d the information and/or o	analyze the diagrams to
Example 1: Nocturnal and Diurnal Worm	S	
Darwin's 4 Conditions for Natural Selection	Application	to Worms
Variation in a population.		
Variation must affect survival.		
Variation must be heritable.		
More offspring are produced than can survive.		
Example 2: Coats of Polar Bears		
Darwin's 4 Conditions for Natural Selection	Application t	to Polar Bears
Variation in a population.		
Variation must affect survival.		
Variation must be heritable.	*	
More offspring are produced than can survive.		
ample 3: Speed of Ostriches	3	
Darwin's 4 Conditions for Natural Selection	Application	n to Ostriches
Variation in a population.		
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	Examples of Natural Selection Directions: For each of the examples, reacomplete each table. Example 1: Nocturnal and Diurnal Worm Darwin's 4 Conditions for Natural Selection Variation in a population. Variation must affect survival. Variation must be heritable. More offspring are produced than can survive. Example 2: Coats of Polar Bears Darwin's 4 Conditions for Natural Selection Variation in a population. Variation must affect survival. Variation must be heritable. More offspring are produced than can survive. ample 3: Speed of Ostriches Darwin's 4 Conditions for Natural Selection Variation in a population. Variation must be heritable. More offspring are produced than can survive. Autilia Selection Variation must affect survival. Variation must affect survival. Variation must be heritable. More offspring are produced than	Examples of Natural Selection Directions: For each of the examples, read the information and/or complete each table. Example 1: Nocturnal and Diurnal Worms Darwin's 4 Conditions for Natural Selection Variation in a population. Variation must affect survival. Variation must be heritable. More offspring are produced than can survive. Example 2: Coats of Polar Bears Darwin's 4 Conditions for Natural Selection Variation in a population. Variation must affect survival. Variation must be heritable. More offspring are produced than can survive. Application Wariation must be heritable. More offspring are produced than can survive. Application Variation must be heritable. Variation in a population. Variation must affect survival. Variation must affect survival. Variation must affect survival. Variation must be heritable. More offspring are produced than Variation must be heritable. More offspring are produced than

Name:	Date: Period:
Example 4: Anti-biotic Resistant B	
(Examine the pictures below and describe who	at is happening)
a	
normal bacterium	a dead bacterium
There is a population of bacteria	a with the following variations:
o. When exposed to anti-biotic, su	ich as Penicillin,
	om the anti-biotic
. The bacteria that did not die iro	cteria changed so that
1 1	cteria changed so that
. Over time, the population of bac	
. Over time, the population of bac	
. Over time, the population of bac	
la z. Mico	
la z. Mico	hat is happening. Use Example 4 as a template for your answer.)
la z. Mico	
xample 5: Mice Examine the pictures below and describe wh	hat is happening. Use Example 4 as a template for your answer.)
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PRINT THESE ON COLORED PAPER AND CUT INTO INDIVIDUAL CARDS

Example 1: Nocturnal and Diurnal Worms

There are 2 types of worms: nocturnal and diurnal. Nocturnal worms sleep during the day and eat at night. Diurnal worms sleep at night and eat during the day. The eating patterns of worms are inherited from their parents. Birds prey on worms. A scientist observed birds eating during the day and only finding the diurnal worms. The nocturnal worms were hidden in the soil during this time. Each spring when the worms reproduce, they have about 500 babies but only 100 of these ever become old enough to reproduce.

Example 2: Polar Bears

There are 3 types of polar bears: ones with thick coats, ones with thin coats and ones with medium coats. The type of coat each polar bear has is an inherited trait from their parents. It is fall, soon to be winter. The temperatures are dropping rapidly and the bears must be kept warm, or they will freeze to death. Polar bears with thicker coats have more protection from the freezing temperature, thus a higher chance of survival. Most of the mother bears have 2 cubs at a time, but due to the extreme temperatures, often times, only one of them will survive.

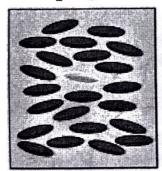
Example 3: Ostriches

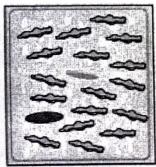
In ostriches, there are 2 types: ones that run fast and those that run slowly. The fast birds can reach up to 40 miles an hour. The slow birds can reach up to 30 miles an hour. The speed of birds is an inherited trait from their parents. Jackals love to eat ostrich, and they can reach speeds of up to 35 miles per hour. A flock (group of females) of ostriches will lay approximately 10 eggs, but many rodents break into the eggs and eat them before they hatch.

Example 4: Mice (this does not have an reading. Instead, students will analyze the picture that is on their paper.)

(CB EXTENSION: Lets have one more example ready for any student that is up for the challenge. It is similar to the mice format, where they need to analyze the picture, instead of just reading. They can make their table on looseleaf, and attach to the other page.)

Example 5: Anti-biotic Resistant Bacteria









normal bacterium

dead bacterium

resistant bacterium