Name_		Date	Hour	
Biology	Guided Reading 4-1	Population [Dynamics	
1.	What 3 factors are used to describe a population?			
2.	Define population density.			
3.	Define dispersion.			
0.	z cime dispersion.			
4.	Examine figure 2, What are the 3 disp	persion patterns	. Sketch each pattern.	
E	Describe two reasons a species migh	t not he able to	ovpand its range of habitat	
5.	Describe two reasons a species mign	t flot be able to	expand its range of habitat.	
6.	Contrast density independent factors	s with density de	ependent factors.	
7.	Give two examples of density indepe	ndent factors th	nat might affect a population size	
8.	Why is disease considered a density of	dependent facto	or?	

9.	Explain how the population number of lemmings changes as resource availability changes.
10.	Contrast the natality and the mortality of a population?
11.	Contrast emigration and immigration.
12.	What characteristic of a population do ecologists use natality, mortality, emigration and immigration to determine?
13.	What are the two types of growth curves? Sketch each one.
14.	Examine figure 7, how long would it take for a population of mice to grow to a number of 3.0 million? Does this happen often in nature? Why or why not?
15.	Define carrying capacity.
16.	What are the two types of reproduction strategies? Which type of factors control each?