N	lame	Date	Class		
V	Why Populations Stop Grou		Olass		
	Apply		Skill:	Classifying	
L	imiting Factors				
	this section, you learned about the variously the following situations and determine dependent or density dependent.	ous factors that limit p whether the limiting fa	opulation size. actor is density		
1. Some ocean birds, such as gannets, breed on remote, rocky islands where they are safe predators. Many gannets flock to these islands each year to build nests. Because the islands, only a certain number of birds can nest and reproduce. Is island size a density-incor density-dependent limiting factor? Explain your answer.					
2.	trout's main food source. Trout especially to eat the ones that are most plentiful. Fo stonefly population is low, the trout eat m	clos visits on his annual "catch-and-release" fishing trip always provides him in. Carlos uses a "fly" lure instead of a worm because young flies are the rec. Trout especially like flies called midges and stoneflies, and always prefer are most plentiful. For example, when the midge population is high and the slow, the trout eat midges and ignore stoneflies. Is the eating pattern of ident or density dependent? Explain your answer.			
3.	Thrips are small insects that feed on apple In recent years, a severe drought hit apple drought, most apple trees did not blossom food source disappeared. Was the drought factor? Explain your answer.	The thrip population	of New York. Beca	use of the	
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Why Populations Stop Growing Limiting Factors (continued) 4. Tomatoes are Anne's favorite food. Last year, Anne decided to plant her own tomato go She wanted a large crop, so she planted many plants in her small garden. At first the pathrived, but after one month, Anne noticed that they had stopped growing and looked. The few tomatoes that her garden produced were small and sour. Anne's neighbor grew tomato plants, but harvested many more tomatoes than Anne. From her experience, A learned that overcrowding was a limiting factor in the growth of her tomatoes. Was ove a density-independent or density-dependent limiting factor? Explain your answer.	lants unhealthy. v only two
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5. This year, Anne was excited about planting another tomato garden. On a warm day in March, she carefully set out her tomato seedlings. Two weeks later, the weather turned frost killed most of the seedlings, and Anne had to plant new ones. Frost was obviously limiting factor in the growth of Anne's tomatoes. Was it density independent, or densit dependent? Explain your answer.	cold. A
6. Alberto is visiting his aunt's farm. He notices that the number of ticks are different in t adjacent pastures. One pasture is used for grazing dairy cows while the other pasture is u to grow hay. Alberto finds many ticks in the pasture with the dairy cows and almost not the hay pasture. Is the tick population density dependent or density independent? Explayour answer.	ised