

**APES *Cartoon Guide to the Environment* Activity**

**Ch. 8 “What Limiting Factors” beginning on pg. 99**

1. How did the development of agriculture make some people actually less healthy than when they were hunter-gatherers?
2. How did the political system of the time and control of energy and food reserves influence population growth?
3. Describe what happens to the growth rate of a population that is experiencing exponential growth.
4. Compare and contrast the S-shaped and J-shaped population growth curves and their relationship to the carrying capacity.
5. Although Malthus was wrong about our ability as a species to increase food supply, he was correct about which factors that serve to check or slow population growth?
6. According to the chapter, what is the overall effect on localized famines on overall global population?
7. Pathogens are characteristic of an “r-strategist or r-selected species”, what are the general attributes of an r-selected species? How does that compare with a k-strategist?
8. How does the war between the human immune system and pathogens illustrate the concept of co-evolution?
9. How is the H.M.S Vector pictured on page 115 similar to a modern transcontinental jet aircraft?
10. List at least two other infectious diseases besides plague that has markedly decreased human populations. Have these disease had any significant impact on the population growth trend over the last 500 years? Why or why not?
11. Describe the general trend of population growth patterns for the developing and developed countries of the world.

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