

# Bill Nye Populations

## Before You Watch

1. What does population mean in every-day life?
2. What does it mean to compete? Give some examples of competition.
3. Which do you think is larger, the populations of humans on earth or the population of bacteria in your stomach?

## While You Watch

4. We are not alone. All of us are part of a \_\_\_\_\_.
5. Populations compete for \_\_\_\_\_ and for \_\_\_\_\_.
6. What is a population?  
It is a \_\_\_\_\_ of organisms of the \_\_\_\_\_ species living in a particular \_\_\_\_\_ at the \_\_\_\_\_ time.
7. List 3 examples of populations from the video. (Not the balls)  
\_\_\_\_\_  
\_\_\_\_\_
8. Why doesn't the population of weeds grow as fast as it does on the calculator?

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9. When this video was made, the population of humans in the world was \_\_\_ billion people.
  10. The population in a culture of bacteria can double in as little as \_\_\_ minutes.
  11. There are more \_\_\_\_\_ living in your \_\_\_\_\_ than there are people living on the Earth.
  12. What has happened to the wild cheetah population? \_\_\_\_\_
  13. Populations don't always stay the same, sometimes, they go \_\_\_\_\_ and \_\_\_\_\_.
  14. Populations not only compete with each other, they also \_\_\_\_\_ on each other.
  15. A parasite is a \_\_\_\_\_ that lives right off of other \_\_\_\_\_.
  16. Populations compete for \_\_\_\_\_ and places to \_\_\_\_\_.
  17. How is the human population affecting other populations on Earth?

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### After You Watch

18. Based on the video, what does the word population mean in biology?

19. If a population of bacteria have a doubling time of 20 minutes and you start with 4 bacteria, how many bacteria will there be in 24 hours?

20. When the girl gets off the see-saw, bill falls off. How does this illustrate the relationships between populations?

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### 21. Review and Connect:

- a. All living things are made of \_\_\_\_\_.
- b. Cells work together in groups called \_\_\_\_\_.
- c. Tissues that work together to form one major part of an organism make an \_\_\_\_\_.
- d. A group of organs that work together to perform one function are an \_\_\_\_\_.
- e. All of the organ systems together make up the \_\_\_\_\_.
- f. A group of the same kind of organism living together in the same place at the same time make up a \_\_\_\_\_.