



High School Science Virtual Learning

Biology

Human Impact

Human Overpopulation

May 21, 2020



High School Applied Biological Science

Lesson: May 21, 2020

Objective/Learning Target:

Students will be able to describe how the increasing human population is affecting earth and its natural resources.

Let's Get Started:

1. By AD 1, how many people were on Earth?
2. If growth trends continue, when will the global population peak and what will the projected population be?





Let's Get Started: **Answer Key**

1. 170 Million People
2. 2100 and the population will be 11 billion.



Lesson Activity:

Directions:

1. Watch the video over human population and read through the passage in Ck 12 Overpopulation.
2. Take notes over the effects of an increasing human population. Then use them to answer the practice questions.

Links:

[Human Population and Ecology](#)

[CK 12 Overpopulation](#)



Practice

Complete the following questions using the information you learned during the lesson activity.



Questions:

1. How have humans increased our carrying capacity?
2. What is an ecological footprint?
3. List 2 consequences of the Green Revolution.
4. Why has so much natural land been converted to human uses? What happens to the ecosystems that are affected?
5. What causes pollution and why is it so widespread?



Once you have completed the practice questions check with the **answer** key.

1. By the use of modern medicine and the development of agriculture the carrying capacity of humans has increased with more space and food available.
2. A calculation of how much land and how many resources each person on the planet needs to survive.
3. Land Loss and Pollution
4. Much of the natural land that has been altered is due to the need of farmland and cities. This destroys ecosystems and natural habitats for plants and animals.
5. Pollution is anything that enters a land, air, or water reserve that is not natural to it and can cause harm to the wildlife. It is caused from human dumping and the burning of fossil fuels.



Misconceptions

Open the following link to read about misconceptions related to overpopulation.

[13 Misconceptions of Overpopulation](#)



More Practice:

Follow the links below to do more practice.

1. [CK12 Human Population Assessment](#)
2. [Human Population Quizizz](#)



Additional Resources:
Click on the link below for additional resources.

[Interactive Human Population World Map](#)