

Living Earth: Week 7 Assignment → 5/18-5/25**Big Ideas We'll be Discussing: Human Population Growth, Habitat Loss, Plastic Pollution, Invasive Species**

Unit 8: Lesson 2 Explore/explain sections 1 and 2.

Explore/explain section 1 *You will learn about human population and growth and factors that have contributed to it*

Explore/explain section 2 *Discusses the impact of humans on habitat loss and diversity*

Assignments:**1) Please log into the HMH app via Clever in order to do the Textbook Assignment.**

From Unit 8 Lesson 2: you will read the following sections:

- Explore/Explain 1: Human Population Growth
- Explore/Explain 2: Habitat Loss
- Take notes and fill in the answers.

Skip the Language Arts connection and hands on activity

***if you are using your workbook instead, the pages are 548-554**

2) Explore 1 HMH reading quiz

3. From the following statements, which is true? * 
(1 Point)

- The human population is stable and not changing
- The human population has been decreasing over time
- The human population has been slightly increasing over time
- The human population has been significantly increasing over time

4. Which statement best describes Earth's human carrying capacity? *
(1 Point)

- It is decreasing due to increasing population.
- It is decreasing due to decreasing death rates.
- It is a fixed number that we will soon exceed.
- It is increasing due to improved technology and medicine.

5. What did Malthus predict? *
(1 Point)

- Humans will never run out of food, no matter how big our population gets
- Poverty and famine will occur if the population continues to grow unchecked

6. True or false: Improvements in drinking water quality and food safety have reduced the number of people who die from water- or foodborne diseases such as cholera and salmonella. *
(1 Point)

- True
- False

7. Currently, the human population is 7.6 billion. In the year 2050, it is estimated the human population will be *
(1 Point)

- 6 billion
- 8 billion
- 9.5 billion
- 12 billion

3) Explore 2 HMH reading quiz

3. Which of the following statements is correct? * 
(1 Point)

- Earth is currently experiencing a significant increase in biodiversity
- Earth is currently experiencing a significant decrease in biodiversity
- Earth is currently experiencing a stable biodiversity

4. Borneo Island is currently experiencing habitat loss due to (SELECT ALL THAT APPLY) *
(1 Point)

- Logging
- Crops (such as palm oil)
- Fires
- Land Clearing

5. From the reading, what are some of the negative impacts of habitat fragmentation? (List examples) *
(1 Point)

Enter your answer

6. What is the goal of a wildlife corridor? *
(1 Point)

- To isolate wildlife and decrease gene flow and diversity
- To help wildlife move more freely and increase gene flow and diversity
- To help wildlife move more freely and decrease gene flow and diversity

7. Based on the reading, why should we care to prevent habitat loss? Use examples from reading to defend your answer *
(1 Point)

Enter your answer

You will be watching a video on the production of plastic and how difficult it is to get rid of. It is amazing to think about how many times we use plastic throughout our daily lives and how much of it only gets used a single time. The scary part is how little of it actually gets recycled and how much of it ends up on our lands and in our oceans.

4) **Watch the video** "Plastic Pollution: How Humans are Turning the World into Plastic" (9:01 min long)

<https://youtu.be/RS7IzU2VJIQ>

In this next video, you will be learning about invasive species, which are those species that are introduced in to a new area and can wreak havoc on those organisms that are already living there (called native species). You can actually do research and see that we have them in our own backyard. I am sure some of you have heard about the scary looking "murder hornets" from Asia that have been impacting native bee populations here in the US. Here is an article about them

<https://www.nytimes.com/2020/05/02/us/asian-giant-hornet-washington.html>

5) **Watch the video** "The threat of invasive species - Jennifer Klos" (4:45 min long)

https://youtu.be/spTWwqVP_2s

6) Week 7 videos quiz

3. True or false: Plastic is expensive and hard to mass produce
(1 Point)

- True
- False

4. What is the problem with plastic? 
(1 Point)

- It is expensive to make
- it is not very durable
- It takes a very long time for plastic to break down

5. About how much plastic ends up in the ocean each year?
(1 Point)

- 1 million tons
- 2 million tons
- 4 million tons
- 8 million tons

6. Which statement is true? 
(1 Point)

- Most plastic is recycled, though some still ends up in the ocean and landfills
- Most plastic ends up in the landfill where it will breakdown in a few years
- little plastic is recycled, where most ends up on land and in the ocean

7. How does plastic effect animals? 
(1 Point)

- Animals eat plastic, but it doesnt harm them
- Animals do not get plastic in their systems
- Plastic does get it into animals, and many die because of this

8. Invasive species are dangerous mostly due to their (choose the best answer)
(1 Point)

- Size
- Appetite
- location (where they are)

9. What factors led to the European rabbit population to grow uncontrollably in Australia?
(1 Point)

- A large amount of rabbits were brought in by hunters
- High number of predators, little food
- Low number of predators, suitable climate

10. True or false: Invasive species can be harmful to native species by taking their resources (such as food and habitat) as their population increases, disrupting the ecosystem
(1 Point)

- True
- False

11. The Majority of invasive species are introduced by
(1 Point)

- storms and ocean currents
- Climate shifts
- Humans