

Deforestation and Reforestation Science

Environmental Science · Answer Key · 10 Questions

1. Which gas do trees primarily absorb from the atmosphere to help mitigate climate change?

- A) Oxygen
- B) Carbon dioxide**
- C) Nitrogen
- D) Helium

2. What is the primary definition of deforestation?

- A) The natural shedding of leaves
- B) The permanent removal of trees to make land available for other uses**
- C) The process of planting new trees in a city
- D) The migration of animals to new forests

3. Which of these is a common result of large-scale deforestation?

- A) Increased soil fertility
- B) Lower atmospheric temperatures
- C) Increased risk of soil erosion**
- D) Higher groundwater levels

4. What is the term for the process of replanting an area with trees that was previously forested?

- A) Afforestation
- B) Deforestation
- C) Reforestation**
- D) Urbanization

5. How do forests help maintain the water cycle?

- A) By releasing water vapor through transpiration**
- B) By heating the soil to evaporate lakes
- C) By blocking all rain from reaching the ground
- D) By turning water into solid ice

6. Why are forests considered a 'carbon sink'?

- A) They absorb more carbon than they release**
- B) They store water in their roots
- C) They reflect sunlight back into space
- D) They produce carbon instead of oxygen

7. Which of these ecosystems is most significantly impacted by tropical deforestation?

- A) Desert environments
- B) Biodiversity hotspots**
- C) Open ocean regions
- D) Polar ice caps

8. What is a primary environmental benefit of reforestation?

- A) Increasing the amount of plastic in the soil
- B) Restoring habitats for wildlife**
- C) Reducing the amount of sunlight on Earth
- D) Making the air more humid and unbreathable

9. Which factor is a major driver of global deforestation?

- A) Agricultural expansion**
- B) Increasing ocean depth
- C) Volcanic activity
- D) Increased wind speeds

10. What role do tree roots play in maintaining healthy soil after reforestation?

- A) They prevent the soil from being washed away by rain**
- B) They turn soil into sand
- C) They remove all nutrients from the ground
- D) They stop plants from growing