

Understanding Our Changing Climate

Climate Change · Practice Test · 20 Questions

1. What is the main gas that traps heat in the Earth's atmosphere, causing the planet to warm?

- A) Oxygen
- B) Nitrogen
- C) Carbon Dioxide
- D) Hydrogen

2. Which human activity is a major contributor to increased carbon dioxide in the atmosphere?

- A) Planting trees
- B) Recycling paper
- C) Burning fossil fuels like coal and oil
- D) Drinking water

3. What is the term for the long-term shift in weather patterns on Earth?

- A) Daily weather
- B) Seasonal changes
- C) Climate change
- D) A storm

4. When the Earth's average temperature rises, what is this phenomenon commonly called?

- A) Global cooling
- B) Global warming
- C) Local weather
- D) Ocean currents

5. What is one noticeable effect of climate change on polar regions?

- A) Ice sheets are growing thicker
- B) Sea ice is melting
- C) Penguins are migrating north
- D) The North Pole is freezing solid

6. Which of these is a greenhouse gas that can be released from livestock and landfills?

- A) Helium
- B) Methane
- C) Argon
- D) Neon

7. How does deforestation (cutting down forests) contribute to climate change?

- A) Forests absorb more carbon dioxide when cut down
- B) Trees release more oxygen when they are cut down
- C) There are fewer trees to absorb carbon dioxide from the air
- D) Deforestation makes the Earth colder

8. What is happening to sea levels as the Earth warms?

- A) They are staying the same
- B) They are falling
- C) They are rising
- D) They are freezing

9. Which of these animals is particularly vulnerable to changes in sea ice due to global warming?

- A) Kangaroo
- B) Lion
- C) Polar bear
- D) Elephant

10. What is an example of a renewable energy source that helps reduce greenhouse gas emissions?

- A) Coal power
- B) Natural gas
- C) Solar power
- D) Oil

11. When a lot of ice melts from glaciers and ice sheets, what can happen to rivers?

- A) They dry up
- B) They might flood more easily
- C) They freeze over completely
- D) They become narrower

12. What is one way individuals can help reduce their carbon footprint?

- A) Driving a bigger car
- B) Using more electricity
- C) Walking or cycling instead of driving
- D) Wasting food

13. Increased heat from climate change can lead to more of what type of extreme weather event?

- A) Snowstorms
- B) Droughts and heatwaves
- C) Fog
- D) Gentle rain

14. What does the term 'fossil fuels' refer to?

- A) Rocks from the moon
- B) Ancient plant and animal remains that produce energy when burned
- C) New types of plastic
- D) Renewable energy sources

15. How does planting trees help combat climate change?

- A) Trees produce more carbon dioxide
- B) Trees don't have any effect on climate
- C) Trees absorb carbon dioxide from the atmosphere
- D) Trees release heat

16. What is the name for the gases that trap heat in the atmosphere, like carbon dioxide and methane?

- A) Cleaning gases
- B) Cooling gases
- C) Greenhouse gases
- D) Exhaust gases

17. When ocean water warms up, it can take up more space. What effect does this have on sea levels?

- A) It makes sea levels fall
- B) It makes sea levels rise
- C) It has no effect on sea levels
- D) It makes sea levels freeze

18. Which of these is a source of energy that does NOT release greenhouse gases?

- A) Burning wood
- B) Wind power
- C) Burning petrol
- D) Burning coal

19. What can happen to coral reefs when ocean water gets too warm?

- A) They grow bigger and stronger
- B) They turn bright blue
- C) They turn white and can die
- D) They become more colourful

20. What is the primary source of the extra carbon dioxide in the atmosphere that is causing climate change?

- A) Volcanoes erupting
- B) Ocean evaporation
- C) Human activities like burning fossil fuels
- D) Plant respiration