

Quiz – our planet is warming

The correct answers are on the last page.

1. What is a greenhouse gas?
 - A gas in the atmosphere that reflects heat energy back into space
 - A gas in the atmosphere that absorbs heat energy from the sun
 - A gas in the atmosphere that comes from space
 - A gas that's released when you open the door of your greenhouse

2. What is the greenhouse effect?
 - When you paint your house green and it makes the sky a different colour
 - The way greenhouse gases reflect heat energy from the sun, cooling the lower layer of the atmosphere
 - The way greenhouse gases trap and hold heat, warming the earth and the lower layer of the atmosphere

3. What is the main cause of climate change?
 - Decreased greenhouse gases in the atmosphere due to human activities
 - Increased greenhouse gases in the atmosphere due to human activities
 - Rising sea levels
 - Natural fluctuations in the Earth's temperature

4. What are some of the global effects of climate change?
 - Sea-level rise
 - A warmer climate
 - More frequent and intense weather events
 - All of the above

5. What causes sea-level rise?
 - Warmer water in the oceans takes up more volume
 - Melting of ice caps in Antarctica
 - Melting ice around the North Pole
 - All of the above

6. How is New Zealand's temperature expected to change in the future?
- It will get warmer
 - It will get colder
 - There will be no change in our temperature
 - All of the above
7. Which areas of New Zealand are likely to be wetter in the future?
- The West Coast of the South Island
 - Gisborne
 - The Far North
 - Christchurch
8. Which areas of New Zealand are likely to experience more drought in the future?
- The West Coast of the South Island
 - Southland
 - The Far North
 - The Chatham Islands

Correct answers

1. A gas in the atmosphere that absorbs heat energy from the sun
2. The way greenhouse gases trap and hold heat, warming the earth and the lower layer of the atmosphere
3. Increased greenhouse gases in the atmosphere due to human activities
4. All of the above
5. All of the above
6. It will get warmer
7. The West Coast of the South Island
8. The Far North