

# THE CLIMATE CHANGE QUIZ



Find out how much you know about climate change.

**1 What is climate change?**

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**2 Name a human activity that contributes to climate change.**

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**3 Name three effects of climate change**

1. 

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2. 

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3. 

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**4 How many people in the world are vulnerable to the effects of climate change?**

- 4 million       40 million       4 billion

**5 If the global temperature rises by over 1.5°C what percentage of species will be at risk of extinction?**

- 100% - all species will be at risk  
 15-20% - at least one in six species  
 0% - no species will be at risk  
 10-15% - one in ten species will be at risk

**6 Which is the name of the gas that is responsible for 75% of the warming effect from greenhouse gases?**

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**7 Which three of the following are fossil fuels?**

- Coal       Natural gas       Oil       Wood

**8** In the UK, the food we eat is responsible for what percentage of our CO<sub>2</sub> emissions?

- None – food does not generate CO<sub>2</sub> emissions.
- Less than 5%
- more than 30%

**9** What is the link between chocolate and climate change?

**10** In which European city did 196 nations agree on a landmark global plan to curb climate change in December 2015?

- Vienna
- Paris
- New Delhi

**11** Name three types of renewable energy.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**12** What is a carbon footprint?

**13** Name three ways that we can reduce our carbon footprint.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

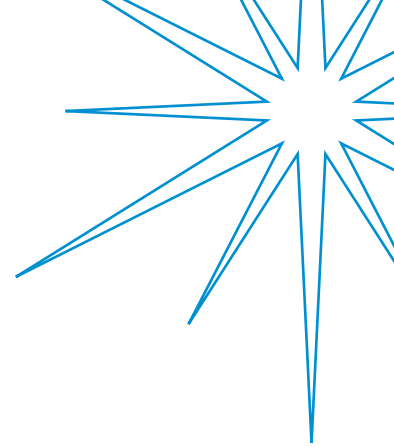
**14** Which of these countries has the highest per capita CO<sub>2</sub> emissions?

- China
- USA
- India
- UK

**15** Name three places in the world that are affected by climate change and say how.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

# THE CLIMATE CHANGE QUIZ ANSWERS



- 1 Climate change is a phenomenon whereby the Earth's climate warms or cools over long periods of time. The term is now more commonly used to refer to the accelerated rate of change which most scientists agree is the result of human activities. The burning of fossil fuels, which interferes with the natural balance of gases in the atmosphere, is largely to blame. As a result, global temperatures are rising and we are seeing many effects of climate change.
- 2 Human activities that contribute to climate change include:
  - Burning non-renewable energy resources, such as coal, oil and natural gas
  - Chopping down rainforests
  - Pollution caused by transport, industry etc.
- 3 The effects of climate change include: rising sea levels, drought and water shortages, floods and other extreme weather conditions, crop failures and food insecurity, reduced agricultural productivity, loss of low-lying lands and islands due to rising sea levels, desertification, loss of biodiversity and ecosystem services and the spread of diseases such as malaria, changes to seasonal weather patterns (such as the monsoon season).
- 4 4 billion
- 5 15 - 20%, at least one in six species
- 6 Carbon dioxide (CO<sub>2</sub>). Other greenhouse gases are methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O) and fluorinated gases ('F gases').
- 7 Coal, natural gas and oil
- 8 More than 30%
- 9 70% of the world's cocoa is grown in Ghana and Cote d'Ivoire where the temperature is likely to rise due to climate change, making it too hot and dry to grow the crop.
- 10 Paris
- 11 Wind, solar, hydroelectric, tidal, wave, ground source heat pump and geothermal energy are all types of renewable energy.
- 12 A carbon footprint is a way in which we can measure the effect the amount of carbon we each use has on the environment.
- 13 Ways in which we can reduce our carbon footprint include:
  - Putting on another jumper rather than turning the heating up
  - Switching off appliances rather than leaving them on standby
  - Turning the lights off when leaving an empty room
  - Walking/cycling or car sharing when travelling to school
  - Eating less meat
  - Even better – growing our own vegetables
- 14 USA
- 15 For information on places affected by climate change, visit: [wwf.org.uk/what-we-do/area-of-work/climate-change-and-energy](https://www.wwf.org.uk/what-we-do/area-of-work/climate-change-and-energy)