

THE CLIMATE CHANGE QUIZ

Find out how much you know about climate change.



1 What is climate change?

2 Why is our planet getting warmer? (Tick 2)

- ☐ Because the continental shelves are moving
- ☐ Because polar bears are too hot
- ☐ Because people are burning too many fossil fuels
- ☐ Because people are cutting down rainforests
- ☐ Because plants are growing much larger

3 What is the polar region in the southern hemisphere called?

4 The heat-trapping gases that surround the Earth are called

5 Most of the energy we use to heat our homes and power our factories is made by burning coal, oil and natural gas.

These fuels are called _____

6 Three effects of climate change are

1. _____

2. _____

3. _____

**7 Name two animal species that are affected by climate change.
How are they affected?**

8 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

9 Tick three things that we can do to reduce the harmful effects that people are having on our planet's climate.

- | | |
|---|---|
| <input type="checkbox"/> Walk or use public transport | <input type="checkbox"/> Use energy efficient light bulbs |
| <input type="checkbox"/> Do more exercise | <input type="checkbox"/> Eat more ice cream |
| <input type="checkbox"/> Reuse plastic bottles | <input type="checkbox"/> Share our food |

10 What is renewable energy?

11 Name two types of renewable energy.

1. _____

2. _____

12 A carbon footprint is

- ☐ A type of boot worn by miners
- ☐ A way we can measure the effect the amount of carbon we each use has on the environment
- ☐ A way we can measure our shoe size
- ☐ A type of walk organised by mountaineers
- ☐ A way we can measure the number of species in a habitat

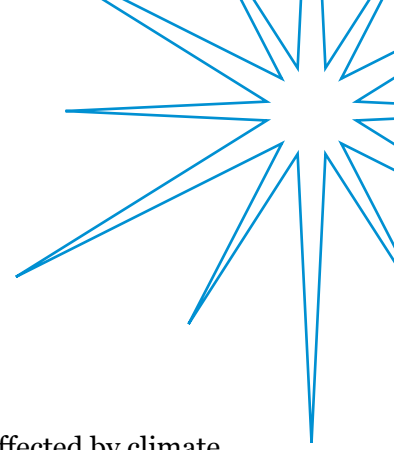
13 Name one thing that you could do to reduce your carbon footprint.

14 What are the 3 Rs?

15 Which of these uses less water and energy, making it better for the environment?

- ☐ A bath
- ☐ A shower
- ☐ A power shower

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 Because people are burning too many fossil fuels.
Because people are cutting down rainforests.
- 3 Antarctica
- 4 Greenhouse gases. These gases contribute to the greenhouse effect: the accumulation of carbon dioxide, water vapour and other gases in the upper atmosphere insulates the Earth, which in turn prevents heat loss and increases atmospheric temperature.
- 5 Fossil fuels
- 6 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).
- 7 Numerous species are affected by climate change including the polar bear, snow leopard, giant panda, monarch butterfly, marine turtles, orang-utans and many others. For further information see **[wwf.org.uk/wildlife](http://www.wwf.org.uk/wildlife)**
- 8 15 – 20%, at least one in six species.
- 9 Walk or use public transport
Reuse plastic bottles
Use energy efficient light bulbs
- 10 Renewable energy is energy that is generated from sustainable sources.
- 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 we can measure the effect the amount of carbon we each use has on the environment.
- 13 Ways that we can reduce our carbon footprint include:
 - Putting on another jumper rather than turning the heating up
 - Switching off appliances fully rather than leaving them on standby
 - Turning the lights off when leaving any room
 - Walking/cycling or car sharing when travelling to school
 - Eating less meat
 - Even better – growing our own vegetables
- 14 Reduce, Reuse, Recycle
- 15 A shower