

## Climate Change Trivia: Questions, Answers, and Facts Printable Trivia Pack

Climate Change trivia explores the causes and consequences of long-term shifts in Earth's climate, from the Industrial Revolution to today's rising temperatures and extreme weather. Expect a mix of easy, funny, and more challenging questions that make a complex global issue approachable while keeping the facts grounded in established science.

### HARD CLIMATE CHANGE TRIVIA

1. Which scientist published an early calculation of CO<sub>2</sub>-driven warming in 1896?

Answer: Svante Arrhenius

2. What UN climate treaty was opened for signature in 1992?

Answer: The United Nations Framework Convention on Climate Change

3. Name the climate agreement adopted in 1997 that set a major benchmark in international emissions policy.?

Answer: The Kyoto Protocol

4. The Paris Agreement's central temperature goal says warming should be held to what level above preindustrial temperatures?

Answer: Well below 2°C

5. Beyond its main threshold, the Paris Agreement explicitly pursues efforts to limit warming to what temperature level?

Answer: 1.5°C

6. What term describes the estimate of cumulative CO<sub>2</sub> emissions compatible with a chosen temperature goal?

Answer: Carbon budget

7. Which IPCC assessment cycle was completed in the early 2020s?

Answer: The Sixth Assessment Report

8. In what year was the IPCC Special Report on Global Warming of 1.5°C released?

Answer: 2018

9. Which group publishes annual estimates of global carbon emissions?

Answer: The Global Carbon Project

10. What report compares planned fossil fuel output with climate goals?

Answer: The Production Gap Report

11. Radiative forcing is conventionally expressed in what units?

Answer: Watts per square meter

12. Where does over 90% of the excess heat trapped by greenhouse gases end up?

Answer: In the ocean

13. What process occurs when seawater absorbs carbon dioxide, altering its chemistry?

Answer: Ocean acidification

14. Ground must remain frozen for at least how many consecutive years to qualify as permafrost?

Answer: At least two consecutive years

#### FUNNY CLIMATE CHANGE TRIVIA

1. Which farmyard gas factory is famous for contributing methane one burp at a time?

Answer: Cow burps are a well-known agricultural source of methane.

2. What trashy place can generate methane when food waste breaks down without oxygen?

Answer: Landfills can produce methane as food waste decomposes without oxygen.

3. A reusable shopping bag gets its gold star only under what condition?

Answer: It helps only if people actually reuse it.

4. If a roof wants to stop auditioning for the role of giant frying pan, what kind of roof is the smarter pick?

Answer: A cool roof, such as a white roof, because dark roofs absorb more sunlight than white roofs.

5. The term 'flight shame' took off from which country as criticism of frequent flying?

Answer: Sweden.

6. What do we call it when a company paints itself leaf-green in ads without being as eco-friendly as it looks?

Answer: Greenwashing.

7. Which climate-related idea was popularized in part by a BP campaign in the 2000s?

Answer: The carbon footprint idea.

8. What is a 'vampire appliance' if not a toaster in a cape?

Answer: A device that uses electricity even when turned off.

9. Some cities give rooftops a makeover with what color to reflect heat better?

Answer: White.

10. What is the name for the effect that makes cities warmer than nearby rural areas, as if downtown borrowed extra summer?

Answer: The urban heat island effect.

11. True or false: Pigs are a climate threat because they may eventually achieve powered flight.?

Answer: False

12. What campaign asks people to skip meat one day a week, giving the fridge a tiny

vegetarian holiday?

Answer: Meatless Monday.

13. Which everyday item became a major anti-plastic symbol after viral footage involving a sea turtle?

Answer: Plastic straws.

#### FUN CLIMATE CHANGE TRIVIA

1. What is the title of Al Gore's climate film that turned a slide deck into a famous documentary?

Answer: An Inconvenient Truth

2. Which documentary series put climate change front and center with the title "Years of Living Dangerously"?

Answer: Years of Living Dangerously

3. Bill McKibben helped launch which climate campaign group with a number in its name?

Answer: 350.org

4. In 350.org, what does the number 350 refer to?

Answer: 350 parts per million of CO<sub>2</sub>

5. Which scientist kicked off the famous CO<sub>2</sub> record measured at Mauna Loa?

Answer: Charles David Keeling

6. The long-running atmospheric CO<sub>2</sub> record has a famous nickname. What is it?

Answer: Keeling Curve

7. If you wanted to visit Mauna Loa Observatory, which U.S. state would your plane ticket need to say?

Answer: Hawaii

8. Which movement grew out of school strikes started by Greta Thunberg?

Answer: Fridays for Future

9. Which climate activist from Uganda has become a prominent international voice?

Answer: Vanessa Nakate

10. Which climate activist is noted here as having Mexican and Otomi-Toltec roots?

Answer: Xiye Bastida

11. Who wrote the climate-themed novel "The Ministry for the Future"?

Answer: Kim Stanley Robinson

12. Which 2004 disaster movie imagined abrupt climate chaos on a blockbuster scale?

Answer: The Day After Tomorrow

13. Who was chosen by the United Nations to lead UNEP in 2019?

Answer: Inger Andersen

#### CLIMATE CHANGE FAMILY TRIVIA

1. Which animal lives in the Arctic rather than Antarctica?

Answer: Polar bears live in the Arctic, not Antarctica.

2. True or false: Penguins are naturally from the Southern Hemisphere.?

Answer: True

3. Coral bleaching often happens when ocean water gets unusually what?

Answer: Unusually warm.

4. What kind of coastal forest can help protect shores from storm surge?

Answer: Mangrove forests.

5. Which busy insect helps pollinate many crops people eat?

Answer: Bees.

6. What word means an unusually long period with too little rain?

Answer: Drought.

7. A stretch of unusually hot weather is called a what?

Answer: A heat wave.

8. What are large masses of moving ice on land called?

Answer: Glaciers.

9. Wildfires can spread faster in which kind of conditions?

Answer: Hot, dry, windy conditions.

10. What powers an electric car?

Answer: Electricity stored in batteries.

11. Which trip has no tailpipe emissions: a bicycle ride or a motorcycle ride?

Answer: A bicycle ride.

12. What helps keep heat inside a home during winter?

Answer: Home insulation.

#### EASY CLIMATE CHANGE TRIVIA

1. In what year was the Paris Agreement adopted?

Answer: 2015

2. What short name is commonly used for the UN climate conference?

Answer: COP

3. What is the chemical formula for carbon dioxide?

Answer: CO<sub>2</sub>

4. Which gas has the chemical formula CH<sub>4</sub>?

Answer: Methane

5. Sea ice in the Arctic forms in which ocean?

Answer: The Arctic Ocean

6. What natural process helps keep Earth warm enough for life?

Answer: The greenhouse effect

7. Coal, oil, and natural gas are known by what group name?

Answer: Fossil fuels

8. What is Earth's main source of energy?

Answer: The Sun

9. Trees remove carbon dioxide from the air during what process?

Answer: Photosynthesis

10. The ozone layer is mainly found in which part of the atmosphere?

Answer: The stratosphere

11. What does IPCC stand for?

Answer: Intergovernmental Panel on Climate Change

12. Electricity generated from moving air is called what kind of renewable energy?

Answer: Wind energy

13. What devices turn sunlight into electricity?

Answer: Solar panels

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