

Climate Change Quiz

Here is a quiz to find out about issues of climate change globally and within Europe.

TAGS

Climate change

Test your knowledge of climate change with this quiz

1. According to the Sustainable Development Goal 13, the biggest threat towards development is:
 - a) Climate change
 - b) Pollution
 - c) Melting Polar Ice-Caps
 - d) Population Growth

Answer: a

Climate change presents the single biggest threat to development, and its widespread, unprecedented impacts disproportionately burden the poorest and most vulnerable.

Source: <https://sustainabledevelopment.un.org/sdg13>.

2. The weather is the same as climate.
 - a) True
 - b) False

Answer: b

The weather describes the ingredients such as rain downfall, wind, cloudiness or temperature and is measured over a short period of time. The climate is measured over a longer period and refers to how the atmosphere “behaves” over this time.

Source: http://www.nasa.gov/mission_pages/noaa-n/climate/climate_weather.html.

3. Select some direct indicators of climate change that would be expected to **increase** in a warming world:
 - a) Overweight and obesity of people
 - b) Sea level
 - c) Temperature over land
 - d) Ocean heat content
 - e) More babies being born
 - f) Racial conflict
 - g) Sea surface temperature

- h) Humidity
- i) Temperature over oceans

Answer: b, c, d, g, h, i

As explained by the US agency, the National Oceanic and Atmospheric Administration (NOAA), there are a number of indicators that would be expected to increase in a warming world, these include a rise in the sea level; temperature over land; ocean heat content; sea surface temperature; humidity; and temperature over oceans.

Source: <https://www.ncdc.noaa.gov/indicators/>.

4. The Greenhouse Effect

- a) is the decrease in the surface temperature on Earth
- b) is the rise in the surface temperature on Earth
- c) is caused by the oxygen shortage

Answer: b

The Greenhouse Effect is the natural process of the rise in surface temperature on Earth as certain gases in the atmosphere trap energy. These gases such as water vapor, carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) are known as greenhouse gases because, like the glass in a greenhouse, they trap some of the outgoing energy from the sun retaining this heat in the earth. As a result, the earth's temperature increases.

Source: <http://whatsyourimpact.org/greenhouse-effect>.

5. The number of reported hydro-meteorological hazards in recent decades (droughts, floods, wind storms, etc.):

- a) Has increased
- b) Has decreased
- c) Has remained about the same

Answer: a

The number of reported hydro-meteorological hazards (droughts, floods, wind storms, forest fires or landslides) has significantly increased in recent decades - from 195 (1987-1998 average) to 365 per year (2000-2006 average), resulting in deaths and economic losses.

Source: <http://www.fao.org/climate-change/en/>.

6. What does this photograph show?



- a) The dense fog in Kraków, Poland
- b) A storm is coming
- c) Smog over the city

Answer: c

Smog is polluted air form mixture of smoke and fumes with the fog which distributed in large cities and industrial estates. Krakow's air is among the most polluted in Poland, which in turn, has the most polluted air in the European Union.

Source: <http://www.npr.org/sections/parallels/2015/04/11/394878756/plagued-by-smog-krakow-struggles-to-break-its-coal-burning-habit>

Photo credit: @Jacek Bednarczyk/source: Polska Aganecja Prasowa

7. How much do we want to limit global warming to in terms of a global temperate increase?

- a) 2° Celsius
- b) 5° Celsius
- c) 10° Celsius

Answer: a

Evidence shows that there have been changes in the global climate since the early 1900's and governments, organizations, scientists and NGO's around the world are campaigning for an essential cut in greenhouse gas emissions in order to limit global warming to as far below 2°C as possible.

Source: <http://www.oxfam.org.uk/what-we-do/issues-we-work-on/climate-change#083f9cb7-fa2e-4313-97e0-4492107d4291>.

8. In which countries do 80% of children either using surface water or have to walk more than 15 minutes to find a protected water source?

- a) Colombia, China, New Zealand
- b) North Korea, Russia, Ukraine
- c) Ethiopia, Rwanda and Uganda

Answer: c

According to the results of Millennium Development Goal 7, in 2010, 89% of the world's population was using improved water sources, up from 76% in 1990.

Source: <http://www.unmillenniumproject.org/goals/>.

9. What is the main cause of the extinction of many living species?

- a) Natural catastrophes – e.g. floods, fires, earthquake
- b) Human activities – e.g. poaching, environmental pollution, disafforestation, clearance of tropical forests
- c) Changes in climate – e.g. temperature rises

Answer: b

The main causes of the extinction of many living species are linked with human activities. However the increase in global temperatures of 2° Celsius would cause as many as one third of all animal and plant species to find themselves on the brink of extinction.

Source: http://www.wwf.pl/co_robimy/klimat_glowna/zmiany_klimatu/zmiany_klimatu_a_rzadkie_gatunki_zwierzt/.

10. Which of the following contributes least to your carbon footprint?

- a) Riding a bike to college
- b) Driving a car to the shops
- c) Taking a plane

Answer: a

A carbon footprint is defined as "the total sets of greenhouse gas emissions caused by an organization, event, product or person". We must remember that our individual decisions affect the fate of the world.

Source: <https://www.carbontrust.com/resources/guides/carbon-footprinting-and-reporting/carbon-footprinting>