

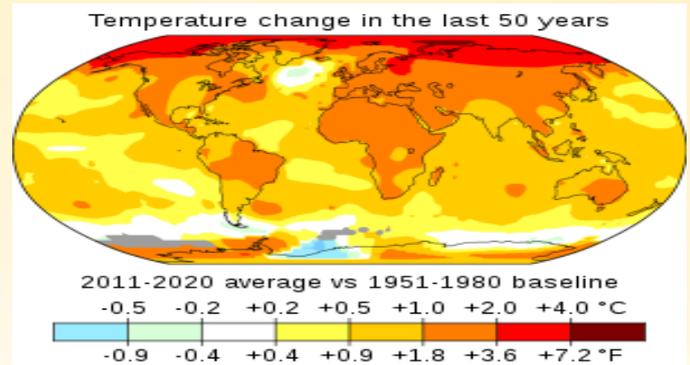
Global warming is the increase of the temperature of Earth. Hotter weather might seem nice, but the effects it has on the Earth is detrimental. Because of this, the Earth's average temperature has risen by 1.4 degrees Celsius. This may not seem like a big difference, but this has a big impact on the Earth.

Global warming is the increases in temperature on Earth. This is caused by the green house effect. The **greenhouse** effect is a natural process that warms the Earth's surface. When the Sun's energy reaches the Earth's atmosphere, some of it is reflected back to space and the rest is absorbed and re-radiated. Scientists believe that humans are responsible for increasing the levels of these gases by using cars, aeroplanes, and building more things that will release carbon dioxide. You will be surprised to learn that even farming

Effects of Global Warming

One of the most immediate and obvious effects of global warming is the increase in temperatures around the world. The average global temperature has increased by about 1.4 degrees Fahrenheit (0.8 degrees Celsius) over the past 100 years, according to the National Oceanic and Atmospheric Administration (NOAA).

Since record keeping began in 1895, the hottest year on record worldwide was 2016, according to NOAA and NASA data. That year Earth's surface temperature was 1.78 degrees F (0.99 degrees C) warmer than the average across the entire 20th century. The effects of Global warming are that places in Antarctica, where there is a lot of ice will start to melt and then penguins and polar bears will lose their habitat. Also, the ice will turn into water, and this is causing sea levels across the globe to rise by 0.3cm a year, this means that there will be less land to live on, and then there will not be enough food.



Average surface air temperatures from 2011 to 2020 compared to a baseline average from 1951 to 1980 (Source: NASA)

Another effect is that warmer temperatures will cause more droughts, and then that means that there will be less water for animals and for us humans. Also, this can cause extreme weather such as hurricanes and tornadoes, which have destroyed homes and habitats in many countries.

Why should we care about global warming?

There are many reasons we should care about global warming: global warming does not just have an effect on the ice caps, the forest, or even people in far-off countries-it affects all of us. Global warming increases food prices and decreases the opportunity of people to enjoy the natural world. Furthermore, we are fortunate to live in a beautiful, diverse and awe-inspiring world, our future generations deserve to live the same.

Shell Shock

'A sudden increase in the amount of carbon dioxide in the atmosphere does more than change Earth's temperature. A lot of the carbon dioxide in the air dissolves into seawater. There, it forms carbonic acid in a process called ocean acidification. Ocean acidification is making it hard for some sea creatures to build shells and skeletal structures. This could alter the ecological balance in the oceans and cause problems for fishing and tourism industries.' (<https://www.nationalgeographic.org/encyclopedia/greenhouse-effect/>, 2021.)

What can we go to reduce the effects of Global Warming?

We all need to play our part in conserving energy in our everyday life.

Making simple choices to save energy may help avoid the serious consequences of global warming. Below are simple changes we can all make to make a difference:



- Turn off the lights.
- Close doors immediately so heat does not escape.
 - Take short showers.
- Walk or bike if you can (instead of having your parents drive you).
 - Turn off your computer when not in use.
- Convince the people around you to save energy.
 - Recycle as much as you can.
- Reduce food waste and eat all the food you buy.
 - Buy fair trade products.



For more information on how to save energy, go to <https://kids.nationalgeographic.com/nature/save-the-earth/article/13-ways-to-save-the-earth-from-climate-change>

Did you know?

- Did you know that some companies say that manure can be used to generate electricity?
- Did you know that since 1870 the sea levels have risen at least 8 inches?
- Did you know that there is more carbon dioxide in the atmosphere today more than any point in the last 800,000 years.
- Did you know that even though Americans only make 4% of the world's population, they produce 25% of the carbon dioxide pollution, which is by far the largest share of any country.
- It takes lots of data and many years to determine how the average temperature of the Earth is changing. Even then, many scientists disagree on how to interpret the data.
- Worldwide carbon dioxide emissions have risen by over 20 percent. Since 1990.
- The International Panel was formed to tackle issues on Climate Change and investigate global warming.

There's no question:

Climate change promises a frightening future if we do not take action now. We cannot turn back the clock; however, we can drastically make improvements in the way we live our everyday life. We have to ensure we take care of our planet as we have been pumping a century's worth of pollution into the air nearly unchecked. The effects of our actions are clear and the consequences do not just impact the physical earth, but all precious living-things, including humans. By reducing our global emissions now, we can avoid a lot of the severe consequences that climate change would otherwise bring.

Newsletter written by The Year 6 Globe Trotters -bringing the latest global issues to your finger tips! If you have any global issues you would like us to cover, please leave us a message on Twitter @BarcroftY6 or @BarcroftPrimary.