# Global Warming

Global Warming is the gradual increase of global annual temperature. It’s caused by the greenhouse effect, which describes how heat energy gets trapped in our atmosphere. Since the industrial revolution the average annual temperature increased by 1°C or 0.07°C every 10 years. The rate has doubled since the 1980s.

This increase in temperature has a big impact on the weather. Floods, hurricanes, droughts, and other weather disasters are becoming more common and harsher. Scientists say that we must reduce carbon emissions by 40 Percent until 2030 to lessen the impact of global warming. This can be achieved by stopping the usage of fossil fuels and becoming more efficient with our energy usage.

# Greenhouse effect

70 percent of the solar energy that the earth receives goes through the atmosphere, causing the surface and, in turn, the entire planet to heat up. This heat gets irradiated as infrared light, where 90 percent of it gets absorbed by greenhouse gases like carbon dioxide or methane in the atmosphere and is redirected back to the surface causing even more warming. An increase of these greenhouse gases would mean that even more heat gets trapped.

The amount of greenhouse gases fluctuates naturally, but currently humans are the major cause of the increase of these gases. By burning fossil fuels and deforestation, humans have significantly changed the atmosphere. Since the industrial revolution the concentration of CO2 has risen by 50 percent.