

CLIMATE CHANGE QUESTIONS



1. What is climate change?

Climate change refers to significant and long-term changes in the average temperature and weather patterns of Earth, primarily due to human activities such as burning fossil fuels and deforestation.



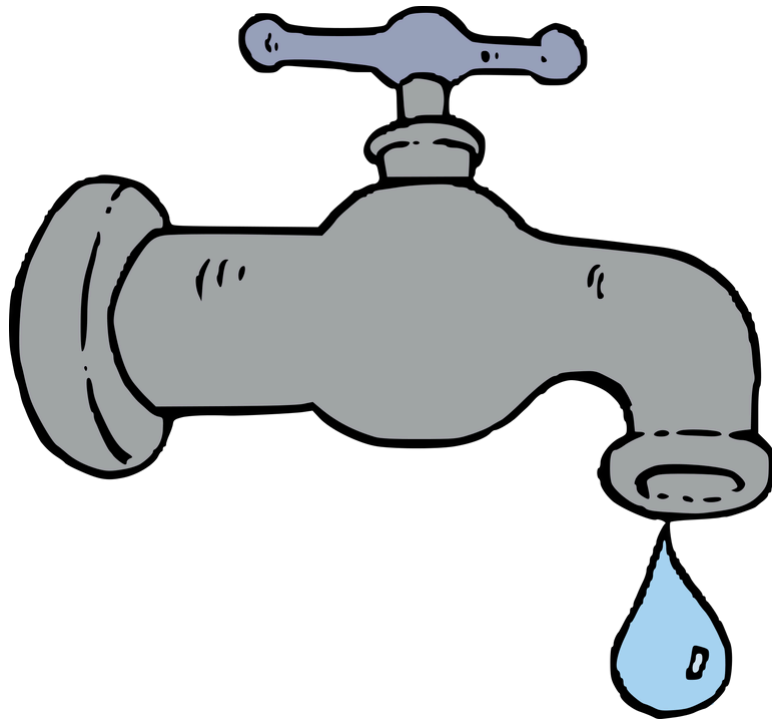
2. Why is the world changing?

The world is changing due to various factors, including technological advancements, globalization, population growth, and environmental changes such as climate change.



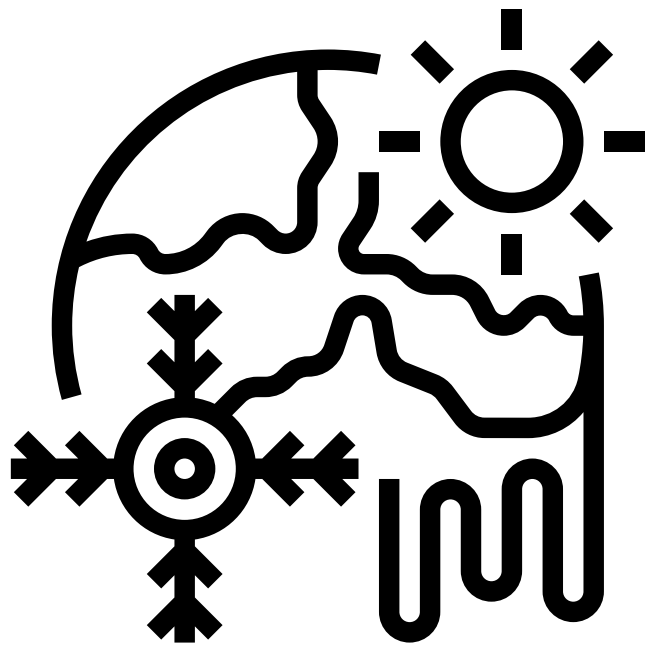
3. Why do sea levels change?

Sea levels change due to thermal expansion of seawater as it warms, melting of glaciers and polar ice caps, and changes in land water storage.



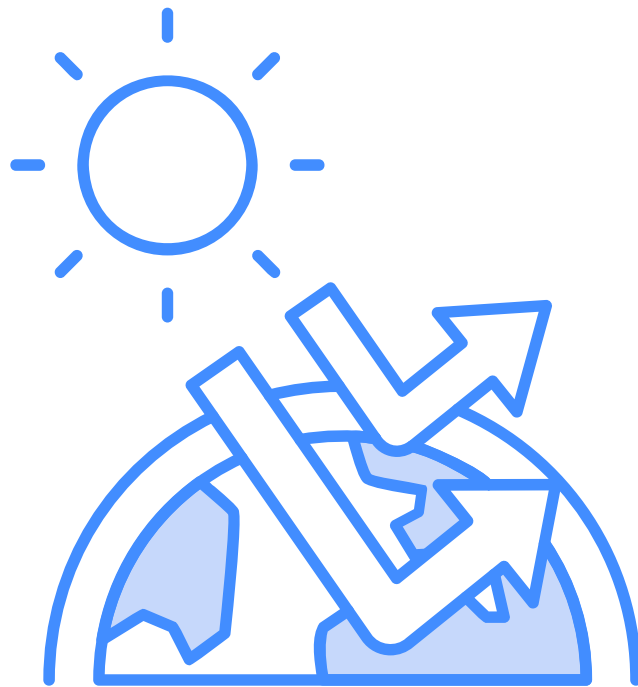
4. How is climate likely to change in the future?

Climate is likely to change in the future with increasing global temperatures, more frequent and severe weather events, rising sea levels, and shifts in ecosystems and biodiversity.



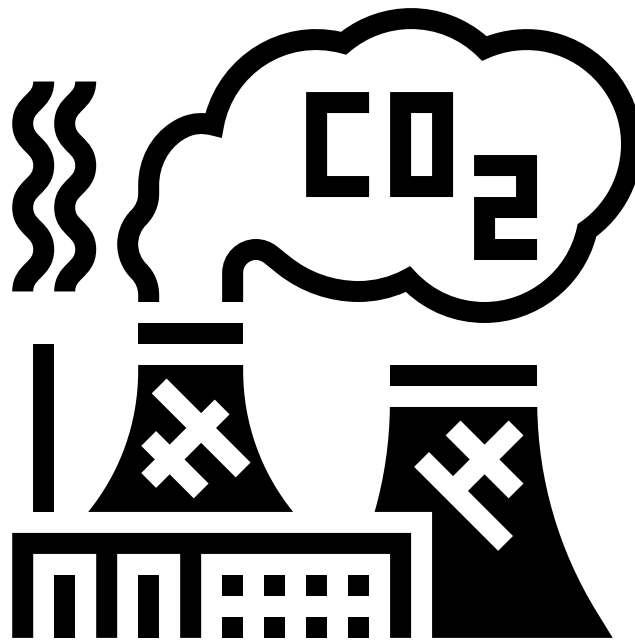
5. What are greenhouse gases and how do they affect climate change?

Greenhouse gases, such as carbon dioxide, methane, and nitrous oxide, trap heat in the Earth's atmosphere, leading to a warming effect known as the greenhouse effect. This contributes significantly to climate change by increasing global temperatures.



6. What are the sources of carbon dioxide in the atmosphere?

Sources of carbon dioxide in the atmosphere include burning fossil fuels (like coal, oil, and natural gas), deforestation, industrial processes, and certain agricultural practices.



7. How can we address climate change?

We can address climate change by reducing greenhouse gas emissions, transitioning to renewable energy sources, improving energy efficiency, reforestation, and promoting sustainable practices in agriculture and industry.



8. How can we and other living beings adapt to a changing climate?

We and other living beings can adapt to a changing climate by developing resilient infrastructure, adopting new agricultural practices, protecting and restoring natural habitats, and enhancing community preparedness for extreme weather events.



9. What are the impacts of extreme weather and climate events?

Extreme weather and climate events can lead to property damage, loss of life, displacement of people, disruption of ecosystems, and economic losses. They can also strain infrastructure, reduce agricultural productivity, and increase the spread of diseases.



10. How fast is the climate changing?

The climate is changing at an unprecedented rate compared to natural variations in Earth's history. The current rate of climate change, driven largely by human activities, is much faster than any observed in the past several millennia.

