A vibrant, artistic illustration of a natural scene. In the foreground, a calm pond with light blue-green water reflects the surrounding greenery. To the left, a large, textured rock sits on the bank, with several tall, pink, star-shaped flowers growing from it. The background is a soft, hazy green landscape with a line of tall grasses. The entire scene is framed by dense, dark green foliage and branches, with several large, light pink and white lily-like flowers hanging from the top edge. The overall atmosphere is peaceful and natural.

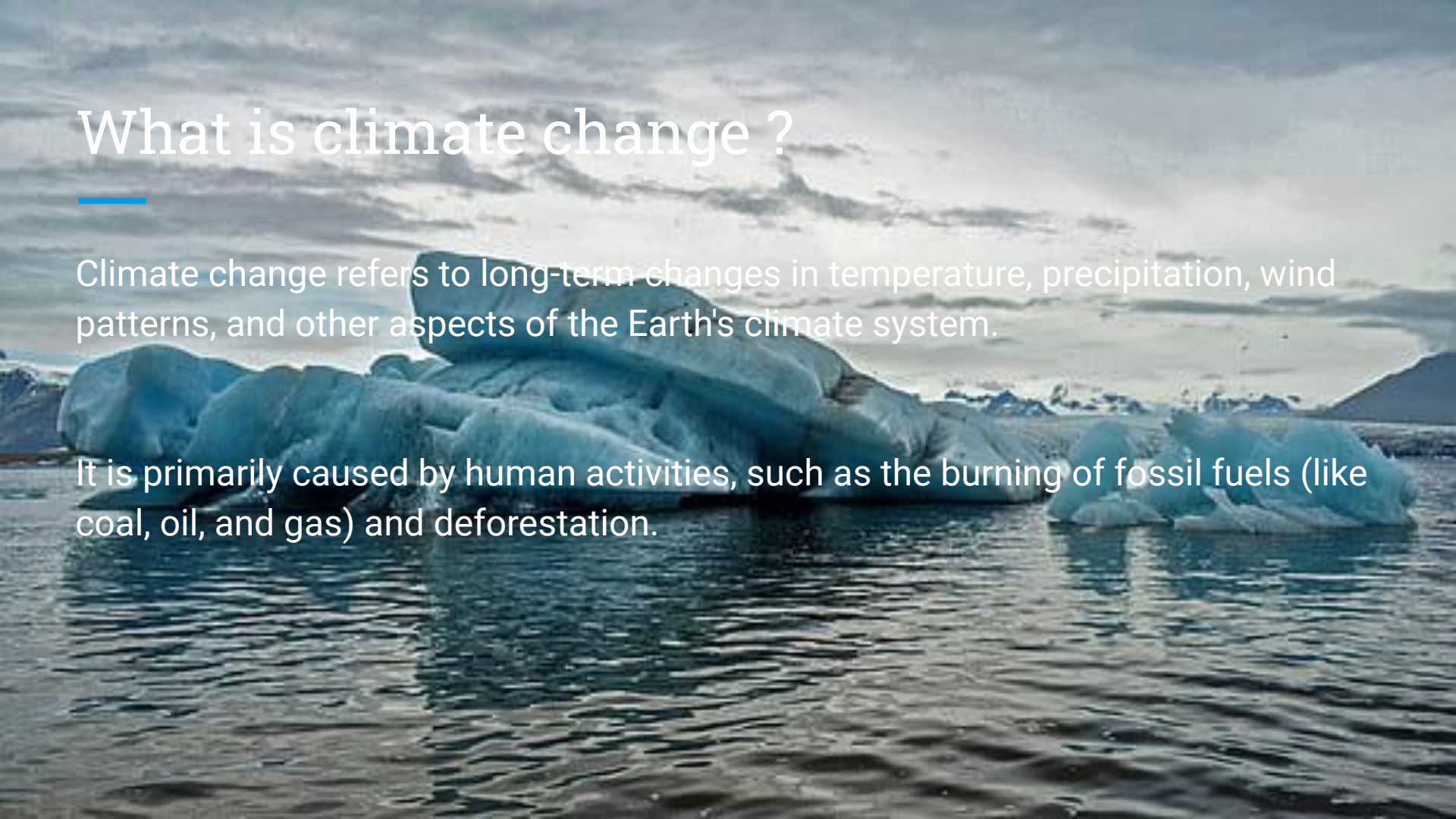
# Book of Climate change

# What is climate change ?

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Climate change refers to long-term changes in temperature, precipitation, wind patterns, and other aspects of the Earth's climate system.

It is primarily caused by human activities, such as the burning of fossil fuels (like coal, oil, and gas) and deforestation.



# How does climate change negatively affect us?

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Climate change can cause more frequent and intense heat waves, droughts, and wildfires.

It can also lead to stronger storms, including hurricanes and cyclones. Rising temperatures can melt glaciers and polar ice, causing sea levels to rise, which can result in flooding and the loss of coastal areas.



# How did climate change happen?

The diagram illustrates the greenhouse effect. At the top, a bright sun emits wavy lines representing solar radiation. These rays pass through a layer of greenhouse gases in the atmosphere. On the left, a CO2 molecule (one grey carbon atom and two red oxygen atoms) is shown with orange arrows pointing towards the Earth's surface. In the center, an H2O molecule (one red oxygen atom and two white hydrogen atoms) is shown with orange arrows pointing towards the Earth's surface. On the right, a CH4 molecule (one grey carbon atom and four white hydrogen atoms) is shown with orange arrows pointing towards the Earth's surface. The Earth's surface is depicted as a globe with green land and blue water. Orange arrows point from the surface back up towards the greenhouse gas molecules, indicating that the surface is re-emitting energy. Some of these arrows are reflected back down to the surface by the gas molecules, representing the 'trapping' of heat. The background is a dark blue gradient, suggesting the atmosphere.

When we burn fossil fuels for energy, it releases greenhouse gases like carbon dioxide into the atmosphere.

These  $\text{CO}_2$  gases trap heat from the sun, causing the Earth's temperature to rise. This is often referred to as the "greenhouse effect."

As a result, we are experiencing global warming, which leads to various impacts on our planet.

# Climate change affect on other lives

A polar bear is standing on a small, broken piece of ice in a dark blue sea. The bear is looking up and to the right. In the background, there is a white, snowy landscape with some hills or mountains under a cloudy sky. The overall scene suggests a melting ice cap or a fragmented ice field.

Not only are us humans affected but climate change affects ecosystems and wildlife.

Many plants and animals rely on specific climate conditions to survive, and changes in temperature and precipitation patterns can disrupt their habitats and food sources.

# Why it is important for children to learn about this issue.




Learning about climate change is super important for a few reasons.

First, it helps you understand the impact that human activities have on the environment. By knowing how our actions affect the Earth, we can make more informed choices to reduce our carbon footprint and protect our planet.



Second, learning about climate change empowers you to take action. You can become an advocate for sustainability and inspire others to make positive changes too. Whether it's through recycling, conserving energy, or supporting renewable energy sources, every little action adds up and makes a difference.

A woman with blonde hair is speaking at a wooden podium. To her right, an American flag is visible. The background consists of dark curtains. The scene is lit with stage lights, creating a professional atmosphere.

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Educating yourself about climate change helps you become a responsible global citizen. It's about being aware of the challenges our planet faces and working towards solutions. By understanding the science behind climate change and the consequences it brings, you can contribute to finding innovative solutions and creating a more sustainable future.

So, by learning about climate change, you're not only helping to protect the environment, but you're also empowering yourself to make a positive impact. Together, we can create a greener and healthier world for generations to come!



## How to help

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Reducing, reusing, and recycling are also key! Try using reusable water bottles and bags, and recycle paper, plastic, and glass. Planting trees is another awesome way to help because they absorb carbon dioxide and provide oxygen.



# ENERGY AWARENESS

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You can start by learning about energy conservation, like turning off lights when you leave a room and unplugging electronics when you're not using them. You can also save water by taking shorter showers and fixing any leaks at home.



Lastly, spread the word! Talk to your friends, family, and even your teachers about climate change and what you're doing to make a positive impact. Together, we can create a greener and healthier planet for everyone.