

# CLIMATE ACTION PROJECT

AYATI GAURAV  
GRADE- 3B



# What is your definition of climate change?

Climate change is the long-term alteration of temperature and typical weather patterns in a place.

# What causes climate change?

Human activity is the main cause of climate change.



## Increased use of fossil fuels

– such as coal, oil and gas to generate electricity, run cars and other forms of transport, and power manufacturing and industry

## Deforestation

because living trees absorb and store carbon dioxide

## Increasingly intensive agriculture

– which emits greenhouse gases like methane and nitrous oxide

## Fertilisers

- containing nitrogen produce nitrous oxide emissions

# What is your personal connection to climate change?

## Ways I am supporting the fight against climate change

- spending time in nature
- Using more organic products and very less plastic
- Using electricity wisely e.g. using energy efficient light bulbs
- Using bicycle for shorter distance rather than car
- Proper use of recycling bins



How is climate change impacting my local community?



## Extreme Heat

Already experiencing a warming climate.

## Sea level rise

Sea-level rise and storm surges would lead to saltwater intrusion in the coastal areas, impacting agriculture, degrading groundwater quality, contaminating drinking water, and possibly causing a rise in diarrhea cases and cholera outbreaks, as the cholera bacterium survives longer in saline water.

## Agriculture and food security

Water scarcity, rising temperatures, and intrusion of sea water is impacting crop yields.

## Groundwater

More than 60% of India's agriculture is rain-fed, making the country highly dependent on groundwater. Due to climate change, India's groundwater resources are overexploited.

## Energy Security

Decrease in the availability of water and increases in temperature will pose major risk factors to thermal power generation.

## Changing Rainfall Patterns

A decline in monsoon rainfall has already been observed. The frequency of heavy rainfall events has also increased.

## Glacier Melt

Loss of snow cover over the Himalayas are expected to threaten the stability and reliability of northern India's primarily glacier-fed rivers.

## Droughts

Droughts are expected to be more frequent in north-western areas. Crop yields are expected to fall significantly because of extreme heat.

## Migration

Climate change impacts on agriculture and livelihoods is increasing the number of climate refugees.

## Water Security

Many parts of India are already experiencing water stress, satisfying future demand for water will be a major challenge.

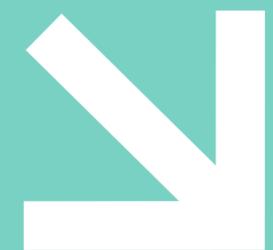
## Health

Climate change is having major health impacts - increasing malnutrition and related health disorders such as child stunting, malaria and other diseases are on the rise.

Heat waves are likely to result in a very substantial rise in mortality and death.

# How can accessing multiple perspectives provide new direction for action?

- Helps in bringing people together to work collaboratively to address the issue of climate change
- Aids in sharing best practices to find solution to common issues



## Group Discussion

Sharing prior learning and ideas in a group will facilitate exchange of thoughts and ideas

## Pre-assessment

Will help in understanding the current knowledge level and can provide a direction to future learning

## Access to resources

Access to books and other online resources will help in building on the prior knowledge

How can I build on prior learning to connect to new ideas?