



## Adaptation measures

These are actions which can be taken at the level of each individual and organisation to reduce the negative effects of climate change.

### Student/Youth

Examples of adaptation measures are:

Choose from the following:

- A. Collect rain water to water plants
- B. Tree planting
- C. Save water by using a bucket instead of a hose to wash the car
- D. All of the above**

### Family

Collecting rainwater for use in the garden or for washing exterior of the house is an example of an adaptation measure.  
True or False?

- A. True**
- B. False

### Seniors

The occurrence of diseases such as, chikungunya and dengue fever are increasing with climate change. How can you protect yourself from such diseases?

Choose from the following:

- A. Affixing mosquito nets on windows
- B. Use of mosquito repellent
- C. Avoid stagnant water
- D. All of the above**

### Farmers

Which of the following is an adaptation measure related to agriculture?

- A. Use potable water for irrigation
- B. Use rainwater for irrigation**
- C. Excessive use of pesticides
- D. Excessive use of chemical fertilizers

### Fishermen

Planting and restoring mangroves protects the coast.  
True or False?

- A. True**
- B. False

### Did you know?

According to the World Bank Report (Year 2010), the cost of adaptation to climate change may vary from USD 70 to 100 billion per year by 2050



## Beach erosion

This is caused by climate change. In Mauritius, many beaches are eroded for e.g. Flic en Flac and Mon Choisy.

### Student/Youth

What are the causes of beach erosion?

Choose from the following:

- A. Sea level rise
- B. Coral mortality
- C. More frequent and intense tropical storms
- D. All of the above

### Family

Beach erosion is the washing away of sand along the beach. True or False?

- A. True
- B. False

### Seniors

Beach erosion also affects our tourism industry due to limited space on the beach. True or False?

- A. True
- B. False

### Farmers

Sea level rise causes beach erosion and may contaminate groundwater. True or False?

- A. True
- B. False

### Fishermen

Healthy coral reefs protect the beach from erosion. True or False?

- A. True
- B. False

### Did you know?

Healthy reef dissipates up to 80% of wave energy



## Climate change

These are changes in the Earth's climate due to natural processes and mainly human activities observed over a long period of time.

### Student/Youth

Which of the following are impacts of climate change?

- A. Changes in rainfall patterns
- B. Increase in frequency and intensity of extreme events (droughts, floods and tropical cyclones)
- C. Increase in temperature
- D. **All of the above**

### Family

In Mauritius, there is an increased occurrence of motorised vehicles on our roads. Such type of vehicles contribute to climate change. True or False?

- A. True
- B. False

### Seniors

In Mauritius, there is an increased occurrence of flash floods. This is an example of an impact of climate change. True or False?

- A. True
- B. False

### Farmers

How can climate change affect agriculture?

- Choose from the following:
- A. Increased incidence of pests and diseases
  - B. Reduced production of crops
  - C. Decrease in water availability
  - D. **All of the above**

### Fishermen

Coral bleaching is an impact of climate change. True or False?

- A. True
- B. False

### Did you know?

2015 was the hottest year on record according to the World Meteorological Organization



# Drought

It is a prolonged period of little or no rain leading to a shortage of water.

## Student/Youth

**What is the % of freshwater on planet Earth?**

Choose from the following:

- A. 97%
- B. 75%
- C. 10%
- D. 3%**

## Family

**What are the impacts of extensive drought?**

Choose from the following:

- A. Lack of drinking water
- B. Destruction of crops and animal mortality
- C. Health problems related to poor sanitation
- D. All of the above**

## Seniors

**How can you save water?**

Choose from the following:

- A. Wash the car using a hose
- B. Take long showers
- C. Use rainwater to water plants and to wash the exterior of the house**
- D. All of the above

## Farmers

**How does drought affect agriculture?**

Choose from the following:

- A. Decrease in crop production**
- B. More availability of water
- C. Increase in crop production
- D. Production of high quality vegetables

## Fishermen

**Which months of the year in Mauritius are more prone to droughts?**

Choose from the following:

- A. October, November and December**
- B. March, April and May
- C. June and July
- D. January and February

## Did you know?

World day to combat desertification is observed on 17 June. The aim is to promote public awareness relating to international cooperation to combat desertification and the effects of drought



## Energy saving

Actions to reduce use of electricity, gas or other forms of energy can help to reduce emissions of greenhouse gases (GHG) which is the main cause of climate change.

### Student/Youth

What is the major source of electricity generation in Mauritius?

Choose from the following:

- A. Bagasse
- B. Hydro energy
- C. Fossil fuels - coal and heavy fuel oil**
- D. Wind energy

### Family

A solar water heater helps to save electricity. True or False?

- A. True**
- B. False

### Seniors

A compact fluorescent light bulb uses less energy than a regular bulb and it can last up to four years. True or False?

- A. True**
- B. False

### Farmers

Livestock waste can be used to generate energy (biogas). True or False?

- A. True**
- B. False

### Fishermen

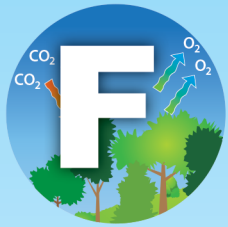
How can you reduce energy consumption of your refrigerator?

Choose from the following:

- A. Clean coils regularly at the back of the refrigerator
- B. Place refrigerator away from direct sunlight
- C. Not overcrowd the refrigerator
- D. All of the above**

### Did you know?

Every time you open the refrigerator door, up to 30 percent of the cold air escapes



## Forests

They are large areas covered mainly with trees or other woody vegetation which store more carbon than they release.

Trees absorb carbon dioxide (CO<sub>2</sub>) and release oxygen (O<sub>2</sub>) during the daytime.

### Student/Youth

**What are the benefits of forests?**

Choose from the following:

- A. Act as a habitat for wildlife
- B. Absorb carbon dioxide - cleans the air
- C. Release large amount of oxygen which is essential for our survival
- D. **All of the above**

### Family

**Trees help to reduce air pollution by trapping pollutants on their leaves and trunk. True or False?**

- A. **True**
- B. False

### Seniors

**Trees provide shade and a cooling effect to decrease local air temperature in the neighbourhood. True or False?**

- A. **True**
- B. False

### Farmers

**Forests increase groundwater through their roots. True or False?**

- A. **True**
- B. False

### Fishermen

**Mangrove forests along the coast provide habitat for fish, birds, insects and reduce the effects of a storm surge. True or False?**

- A. **True**
- B. False

### Did you know?

Endemic plants are native plants found only in Mauritius and nowhere else. Examples are tambalacoque, trochetia, ebony and bottle palm

As at 2014, only 25% of forest area remained in Mauritius



## Greenhouse gases (GHG)

These are gases that are present in the atmosphere that absorb infrared radiation and trap heat to keep the temperature on Earth warm.

GHG that are of most concern are Carbon Dioxide, Nitrous Oxide and Methane.

### Student/Youth

Which of the following is not a greenhouse gas?

- A. Water vapour
- B. Carbon dioxide
- C. Methane
- D. Oxygen**

### Family

Human activities that increase the amount of greenhouse gases in the atmosphere are:

Choose from the following:

- A. Burning of fossil fuels, such as, petrol, coal, and diesel
- B. Deforestation
- C. Burning of waste
- D. All of the above**

### Seniors

Actions which can reduce greenhouse gas emissions are:

Choose from the following:

- A. Carpooling
- B. Planting trees
- C. Saving energy
- D. All of the above**

### Farmers

Which one of the following agricultural activity contributes to greenhouse gas emissions?.

- A. Intensive livestock rearing**
- B. Rainwater harvesting
- C. Use of compost
- D. Use of more pest tolerant crop varieties

### Fishermen

Marine life is adversely affected by ocean acidification, which is caused by an increase in the uptake of carbon dioxide. True or False

- A. True**
- B. False

### Did you know?

Human activities release around 37 billion metric tons of carbon dioxide per year. Since the industrial revolution in 1700's, the level of carbon dioxide on Earth has increased by 34%.

About 30–40% of the carbon dioxide released by humans into the atmosphere dissolves into the oceans, rivers and lakes which is harmful to marine ecosystems



## Health impacts

These impacts of climate change on humans include skin irritations, water and air borne diseases, dehydration, and casualties during extreme weather events.

### Student/Youth

Climate change increases the occurrence of which of the following diseases?

Choose from the following:

- A. Chikungunya
- B. Dengue fever
- C. Malaria
- D. All of the above**

### Family

How can you protect yourself against diseases, such as, chikungunya, dengue fever that are caused by mosquitoes?

Choose from the following:

- A. Using mosquito repellants
- B. Placing mosquito nets on windows
- C. Avoid stagnant water in drains, old tyres and flowerpot plates
- D. All of the above**

### Seniors

Measures to protect yourselves against heat waves are:

Choose from the following:

- A. Drinking a lot of water
- B. Using a fan with opened windows
- C. Dressing appropriately according to season
- D. All of the above**

### Farmers

Climate change threatens food security, which has a direct impact on humans through malnutrition and undernourishment. True or False?

- A. True**
- B. False

### Fishermen

Measures to protect yourselves during extreme weather events are:

Choose from the following:

- A. Not going out to sea in cyclonic weather
- B. Bringing your boat to shore early
- C. Listening to weather forecast
- D. All of the above**

### Did you know?

Between 2030 and 2050, climate change is expected to cause approximately 250,000 additional deaths per year, from malnutrition, malaria, diarrhea and heat stress (WHO Fact sheet 266)





## Inundation

It occurs when normally dry, low-lying land within the coastal zone is flooded by sea water or flash floods.

### Student/Youth

Flash floods occur when there is a heavy or excessive amount of rainfall in an area in a short period of time. True or False?

- A. True
- B. False

### Family

How can you protect yourself from flash floods?

Choose from the following:

- A. Be alert to flood warnings and move towards higher ground
- B. Never drive through flooded roadways
- C. Stay away from power lines and electric wires
- D. All of the above

### Seniors

How can you protect yourself from flash floods?

Choose from the following:

- A. Be alert to flood warnings and move towards higher ground
- B. Never drive through flooded roadways
- C. Stay away from power lines and electric wires
- D. All of the above

### Farmers

Coastal inundation affects coastal agriculture by increasing salinity in groundwater. True or False?

- A. True
- B. False

### Fishermen

Coastal Inundation, for example, during a cyclone, causes temporary beach erosion. True or False?

- A. True
- B. False

### Did you know?

Coastal forests and wetlands act as natural barriers to storm surges. The loss of these ecosystems increase the vulnerability of inland communities to flooding caused by tropical storms



## Judicious use of resources

Use resources such as water, energy and food in a responsible manner and avoid wastage to help conserve our natural resources.

### Student/Youth

**Give an example of judicious use of energy resources?**

Choose from the following:

- A. Set temperature of A/C to 5 degrees celsius less than ambient temperature
- B. Switching off lights when not in use
- C. Unplug appliances when not in use
- D. All of the above**

### Family

**Give an example of judicious use of food resources?**

Choose from the following:

- A. Growing your own herbs and picking only when needed
- B. Shop with meals in mind
- C. Compost your kitchen waste
- D. All of the above**

### Seniors

**Which of the following are examples of judicious use of water resources?**

- A. Use a bowl of water to wash vegetables rather than running water
- B. Reuse water used for washing vegetables to water plants
- C. Use equipment such as, faucet aerators or low flow shower heads to reduce water usage
- D. All of the above**

### Farmers

**Give an example of judicious use of resources for agriculture?**

Choose from the following:

- A. Collect rainwater and use it for irrigation purposes
- B. Use drip irrigation method as far as possible
- C. Use compost instead of chemical fertilizers
- D. All of the above**

### Fishermen

**Give an example of judicious use of resources in fishing?**

Choose from the following:

- A. Adopt seasonal fishing techniques
- B. Avoid damage in coral reef areas
- C. Conduct regular motor boat maintenance to avoid pollution and oil spills
- D. All of the above**

### Did you know?

According to WHO, only 20 litres of water is required per capita per day to take care of basic hygiene needs and basic food hygiene.

In Mauritius, on average 167 litres of water are consumed per capita per day



## Kestrel

The Mauritius Kestrel is a bird of prey endemic to Mauritius.

### Student/Youth

Which locations in Mauritius are the Kestrel bird populations found in?

Choose from the following:

- A. Bambous Mountains in the East
- B. Moka Mountains in the North
- C. Black River Gorges area in the South West
- D. All of the above

### Family

The Kestrel bird is a bird of prey, which hunt and feed on other animals. True or False?

- A. True
- B. False

### Seniors

What is the diet of Kestrel birds?

Choose from the following:

- A. Geckos
- B. Agamid lizards
- C. Small birds
- D. All of the above

### Farmers

Use of DDT pesticide was one of the major causes for decline in population of Kestrel birds. True or False?

- A. True
- B. False

### Fishermen

Mongoose, rats and monkeys are the main predators of Mauritius Kestrel birds. True or False?

- A. True
- B. False

### Did you know?

In 1974, only 4 Kestrel birds were present, and at the end of 1990s, there were thought to be between 600 and 800 birds.

The Mauritius Kestrel recovery programme is the most spectacular of any raptor conservation programme in the world (Mauritius Wildlife Foundation)



## Landfill

It is a solid waste disposal site where waste is deposited in a safe manner to avoid pollution.

### Student/Youth

What is the average waste generated per household in Mauritius?

Choose from the following:

- A. 10 Kg
- B. 5 Kg
- C. 2 Kg
- D. **0.94 Kg**

### Family

Which of the following are ways to reduce domestic waste that is sent to landfill?

- A. Composting kitchen organic waste
- B. Plastic containers, glass items, metal cans and newspapers should be separated and sent for recycling
- C. Buy food items with minimum packaging
- D. **All of the above**

### Seniors

50% - 60% of our waste in the landfill is organic, which can be converted into compost. True or False?

- A. **True**
- B. False

### Farmers

Which of the following type of waste cannot be used to make compost?

- A. Egg shells
- B. Garden waste (weeds, grass, leaves and branches)
- C. **Plastic bottles**
- D. Vegetable peel

### Fishermen

How does plastic waste affect the marine environment?

Choose from the following:

- A. Marine animals get trapped in plastic
- B. Taken in as food by marine animals
- C. Damage coral reefs
- D. **All of the above**

### Did you know?

Domestic waste constituted 96% of the total solid waste landfilled in 2014 (Statistics Mauritius)





## Mitigation measures

Actions that reduce or prevent the emissions of greenhouse gases from human activities.

### Student/Youth

Which of the following actions can help reduce greenhouse gas emissions?

- A. Composting and recycling
- B. Switching off lights when not in use
- C. Using renewable energy such as solar water heaters
- D. All of the above**

### Family

What is the advantage of using a solar water heater?

Choose from the following:

- A. Decrease in electricity or gas bills
- B. Protection of the environment by reducing emissions of greenhouse gases
- C. Reduce dependence on fossil fuels
- D. All of the above**

### Seniors

Which of the following is a mitigation measure?

- A. Tree planting**
- B. Burning of waste
- C. Unnecessary use of electricity
- D. All of the above

### Farmers

Organic farming can help reduce greenhouse gas emissions from the agricultural sector.  
True or False?

- A. True**
- B. False

### Fishermen

Mangrove plantation is a mitigation measure.  
True or False?

- A. True**
- B. False

### Did you know?

The most energy consuming appliance in the house is the air conditioner - use it wisely



## Nitrogen-based fertilizers

These fertilizers infuse greenhouse gas emissions by stimulating microbes in the soil to produce more nitrous oxide.

### Student/Youth

What are the human sources of nitrous oxide (N<sub>2</sub>O)?

Choose from the following:

- A. Agriculture emissions through the use of fertilizers
- B. Industry during the production of fertilizers and fibers
- C. Transportation through the burning of transportation fuels
- D. All of the above

### Family

Excessive use of chemical fertilizers can contaminate our groundwater. True or False?

- A. True
- B. False

### Seniors

Nitrous oxide is up to 300 times more effective at trapping heat in the atmosphere when compared to carbon dioxide. True or False?

- A. True
- B. False

### Farmers

Which of the following is an alternative to chemical fertilizers?

- A. Compost
- B. Decomposed manure
- C. Bio-fertilizers
- D. All of the above

### Fishermen

Excessive fertilizers flow into water courses and eventually into the ocean which can affect marine ecosystems. True or False?

- A. True
- B. False

### Did you know?

Atmospheric concentrations of N<sub>2</sub>O in 2011 were 120% higher than pre-industrial level (World Meteorological Organization)

Nitrous oxide has one of the longest atmosphere lifetimes of the greenhouse gases, lasting for up to 150 years



## Ocean acidification

The amount of carbon dioxide absorbed by the ocean is increasing thereby rising the acidity of sea water leading to serious damage of the coral reef ecosystem.

### Student/Youth

**How is ocean acidification affecting us?**

Choose from the following:

- A. It affects fish supplies due to coral habitat destruction
- B. Shells of some marine animals are dissolving due to increased acidity in oceans
- C. Loss of biodiversity due to marine species not being able to adapt in more acidic waters
- D. **All of the above**

### Family

**An increase in acidity of oceans leads to reduction in the seafood supply. True or False?**

- A. **True**
- B. False

### Seniors

**How can you help to protect corals?**

Choose from following:

- A. Collect live corals
- B. Polluting marine environment
- C. **Avoid trampling on coral reefs**
- D. All of the above

### Farmers

**Excessive fertilizers flow into water courses and eventually into the ocean which can cause algal bloom and lead to increased levels of ocean acidification. True or False?**

- A. **True**
- B. False

### Fishermen

**Why are corals and coral reefs important?**

Choose from the following:

- A. They act as barrier against oceanic waves and prevent beach erosion
- B. They provide shelter for marine organisms
- C. They keep our marine ecosystem healthy
- D. **All of the above**

### Did you know?

Oceans absorb around 22 million tons of carbon dioxide per day (Smithsonian Ocean portal)



## Plastic products

Are petroleum by-products and take on average 450 years to completely disintegrate and are therefore harmful to the environment.

### Student/Youth

**What can you and your friends do to help reduce plastic pollution?**

Choose from the following:

- A. Avoid excessive packaging
- B. Join or start a plastic waste cleanup group
- C. Encourage the use of reusable bags
- D. All of the above**

### Family

**A good alternative to plastic bags is reusable cloth bags. True or False?**

- A. True**
- B. False

### Seniors

**Why is plastic waste harmful to the environment?**

Choose from the following:

- A. Pollutes water courses
- B. Blocks outlet drains
- C. Affects aquatic life
- D. All of the above**

### Farmers

**The use of non-biodegradable plastic mulch can be harmful to the environment. True or false?**

- A. True**
- B. False

### Fishermen

**Plastic products dumped in the ocean can be harmful to marine life and birds. True or False?**

- A. True**
- B. False

### Did you know?

300 million plastic bags are produced annually in Mauritius





## Quantity

Amount of greenhouse gas emissions from human activities is increasing.

Greenhouse gases build up in the atmosphere and warm the climate, leading to many other changes around the world.

### Student/Youth

**How much carbon emissions produced by human activity are absorbed by plants?**

Choose from the following:

- A. 5%
- B. 10%
- C. 25%**
- D. 50%

### Family

**Changes in greenhouse gas concentrations have an impact on human health. Which of the following threats are more likely to increase?**

Choose from the following:

- A. Temperature related illnesses
- B. Air pollution
- C. Vector-borne diseases
- D. All of the above**

### Seniors

**What can you do to reduce the amount of greenhouse gas emissions into the atmosphere?**

Choose from the following:

- A. Switch to clean energy
- B. Plant a tree
- C. Watch your water use
- D. All of the above**

### Farmers

**What can farmers do to reduce the amount of greenhouse gas emissions into the atmosphere?**

Choose from the following:

- A. Use of compost
- B. Better land and crop management
- C. Better manure management
- D. All of the above**

### Fishermen

**By how much is the sea level projected to rise by 2100 if the amount of greenhouse gases in the atmosphere keeps on increasing?**

Choose from the following:

- A. 1 to 2 cm
- B. 5 to 10 cm
- C. 10 to 20 cm
- D. More than 25 cm**

### Did you know?

Small Island Developing States (SIDS) collectively contribute only around 1% of total global greenhouse gas emissions



## Reduce Reuse Recycle (3Rs)

Reduce, reuse and recycle waste.

### Student/Youth

#### What can you recycle?

Choose from the following:

- A. Aluminium can
- B. Paper
- C. Plastic bottles
- D. All of the above**

### Family

#### Which of the following are simple ways to contribute to a better environment :

- A. Learn about collection points for plastic products in your locality
- B. Use reusable grocery bags
- C. Buy fresh items that do not require packaging
- D. All of the above**

### Seniors

#### Which of the following are examples of reusing waste?

- A. Reuse food packaging for art and crafts with children in the house
- B. Donate old furniture
- C. Reuse glass bottles as decorative items
- D. All of the above**

### Farmers

#### An example of waste reduction is as simple as composting. True or false?

- A. True**
- B. False

### Fishermen

#### How can you contribute to a better environment?

Choose from the following:

- A. Re-use plastic bags and all types of containers over and over again
- B. Use rechargeable batteries rather than single-use batteries and ask the local authority about how to dispose of batteries properly
- C. Both of the above**
- D. None of the above

### Did you know?

About 416,000 tons of Municipal Solid Waste (MSW) was landfilled in 2014 in Mauritius of which 31% was food waste and 14% was plastic



## Sea level rise

It is the rise of sea level due to climate change.

### Student/Youth

What are the causes of sea level rise?

Choose from the following:

- A. Increase in global temperatures
- B. Melting of ice caps
- C. Warming of ocean waters (thermal expansion)
- D. All of the above**

### Family

What are the impacts of sea level rise?

Choose from the following:

- A. Beach erosion
- B. Tourism activities affected
- C. Marine ecosystem affected
- D. All of the above**

### Seniors

Remote island nations such as Kiribati, the Maldives and Marshall Islands are at great risk of disappearing due to sea level rise. True or false?

- A. True**
- B. False

### Farmers

Sea level rise causes salt water intrusion (flow of seawater into freshwater aquifers) along the coast. True or False?

- A. True**
- B. False

### Fishermen

What are the impacts of sea level rise?

Choose from the following:

- A. Beach erosion
- B. Tourism activities affected
- C. Marine ecosystem affected
- D. All of the above**

### Did you know?

A recent study indicates sea level could rise by up to 1 meter by 2100



# Temperature

It is rising globally, making the world warmer and affecting our climate and environment.

## Student/Youth

**What has caused global temperatures to rise?**

Choose from the following:

- A. Increase in greenhouse gas emissions**
- B. Use of renewable energy
- C. Planting of trees
- D. All of the above

## Family

**How does an increase in temperature affect your health?**

Choose from the following:

- A. Dehydration
- B. Skin irritations
- C. Increase in occurrence of diseases, such as, chikungunya, dengue fever
- D. All of the above**

## Seniors

**How does an increase in temperature affect your health?**

Choose from the following:

- A. Dehydration
- B. Skin irritations
- C. Increase in occurrence of diseases, such as, chikungunya, dengue fever
- D. All of the above**

## Farmers

**An increase in temperature can bring pests and diseases to the agriculture sector, thus affecting food production. True or false?**

- A. True**
- B. False

## Fishermen

**How are oceans affected by an increase in temperature?**

Choose from the following:

- A. Sea level rise
- B. Migration of fish
- C. Coral bleaching
- D. All of the above**

## Did you know?

15 of the 16 warmest years have occurred since 2001 and 2015 was the hottest year in historical record



# Unity

All individuals should join hands together to combat climate change. It is our responsibility to save mother Earth and future generations.

## Student/Youth

### What can youth do to combat climate change?

Choose from the following:

- A. Become more aware of recent climate change facts
- B. Advocate to raise actions against climate change
- C. Raise awareness in their communities about climate change
- D. All of the above**

## Family

### What can women do to combat climate change?

Choose from the following:

- A. Engage the family in waste management - recycling and composting
- B. Engage the family in water conservation
- C. Engage the family in energy conservation
- D. All of the above**

## Seniors

### What can seniors do to combat climate change?

Choose from the following:

- A. Educate the family on climate change
- B. Provide simple tips at home for better waste management
- C. Encourage water and energy conservation
- D. All of the above**

## Farmers

### What can farmers do to combat climate change?

Choose from the following:

- A. Become more aware of recent climate change facts
- B. Discuss with other planters ways to protect crops during extreme weather events
- C. Raise awareness on climate change
- D. All of the above**

## Fishermen

### What can fishermen do to combat climate change?

Choose from the following:

- A. Increase awareness on changes in climate and how this affects the ocean environment
- B. Discuss ways to protect fishing
- C. Seek resources for sustainable fishing practices or other alternative livelihoods
- D. All of the above**

## Did you know?

The People's Climate March (PCM) was an activist event to advocate global action against climate change. It took place on September 21, 2014 in New York City. It was the largest climate change march in history with an estimated 311,000 participants (Wikipedia)



## Vulnerable populations

Groups of people who are the most exposed and affected by the adverse impacts of climate change.

### Student/Youth

What measures should be taken to be better prepared for extreme weather events?

Choose from the following:

- A. Monitor weather bulletins on Radio/TV
- B. Store sufficient amount of drinking water and food supplies
- C. Secure windows and doors with shutters or shields
- D. All of the above**

### Family

How do adverse impacts of climate change affect women?

Choose from the following:

- A. Water shortage
- B. Food shortage
- C. Increase in occurrence of diseases
- D. All of the above**

### Seniors

How do adverse impacts of climate change affect seniors?

Choose from the following:

- A. Water shortage
- B. Food shortage
- C. Increase in occurrence of diseases
- D. All of the above**

### Farmers

How do adverse impacts of climate change affect farmers?

Choose from the following:

- A. Decrease in crop production
- B. Affects livelihood
- C. Decrease in water supply
- D. All of the above**

### Fishermen

How do adverse impacts of climate change affect fishermen?

Choose from the following:

- A. Decrease in fish catch
- B. Affects livelihood
- C. Increase in occurrence of diseases
- D. All of the above**

### Did you know?

According to the latest World Risk Report 2014, Mauritius is ranked as the 14th country with the highest disaster risk and ranked 7th on the list of countries most exposed to natural hazard



## Water resources

Climate change is having severe impacts on our water resources. It is expected to be reduced and become insufficient to meet demand of the population.

### Student/Youth

Some of the negative impacts of climate change on our water resources are:

Choose from the following:

- A. Decrease in amount of rainfall
- B. Increase in coastal inundation and wetland loss from sea level rise
- C. Decrease in soil moisture
- D. All of the above**

### Family

Which of the following actions can help preserve our water resources?

- A. Close taps when not in use
- B. Use rainwater for non-potable uses, such as for outdoor washing purposes
- C. Use tap aerators to reduce consumption of water
- D. All of the above**

### Seniors

Which of the following human actions are affecting our natural water resources?

- A. Deforestation
- B. Urbanisation
- C. Effluent discharge
- D. All of the above**

### Farmers

Which is the best irrigation method to conserve water?

Choose from the following:

- A. Overhead irrigation method
- B. Use of a watering can to water crops
- C. Drip irrigation method**
- D. Watering crops during high sun periods

### Fishermen

A decrease in the amount of rainfall would adversely affect agricultural productivity. True or False?

- A. True**
- B. False

### Did you know?

Our utilisable water resources are expected to decline by 13 % by the year 2050



## eXtreme weather events

It includes intense cyclones, drought, flash floods and heat waves.

### Student/Youth

Which extreme weather event(s) has/have been observed in Mauritius?

Choose from the following:

- A. Droughts
- B. Flash floods
- C. Heat waves
- D. All of the above**

### Family

Some of the precautionary measures that can be taken in case of an extreme event such as an intense cyclone are:

Choose from the following:

- A. Stock up on basic necessities such as, food and water
- B. Follow weather updates on Radio/TV
- C. Secure doors and windows with shutters or shields
- D. All of the above**

### Seniors

Seniors are more vulnerable to extreme weather events particularly heat waves as it might cause heatstroke. What action(s) can you take to protect yourself from heatstroke?

Choose from the following:

- A. Drink water often
- B. Wear light clothes
- C. Avoid prolonged exposure to direct sunlight
- D. All of the above**

### Farmers

How can extreme weather events affect the agriculture sector?

Choose from the following:

- A. Decrease in crop yield
- B. Decrease in livestock production
- C. Rise in the occurrences of pests and diseases
- D. All of the above**

### Fishermen

How can extreme weather events affect the fisheries sector?

Choose from the following:

- A. Reduction in fish catch
- B. Damage to corals
- C. Damage to fishing equipment such as, cage and boats
- D. All of the above**

### Did you know?

Extreme weather events are expected to increase with more frequent torrential rains resulting in flash floods. As per Disaster Risk Reduction Report, some 5 -70 km<sup>2</sup> of built up land and 19-30 km<sup>2</sup> of agricultural land are at serious risk





## Youth

Considered to be agents of change who can take actions to protect the environment.

### Student/Youth

How can youth help to protect the environment?

Choose from the following:

- A. Join environmental youth clubs and be environment champions
- B. Adopt environmentally friendly practices
- C. Raise awareness among family and friends on environmental issues
- D. All of the above**

### Family

How can young women help to protect the environment?

Choose from the following:

- A. Adopt environmentally friendly practices
- B. Be an advocate for the environment
- C. Participate in clean-up activities
- D. All of the above**

### Seniors

How can youth and seniors collaborate to protect the environment?

Choose from the following:

- A. Form a senior/youth environment club**
- B. Avoid communication
- C. Be authoritative
- D. Provide no guidance

### Farmers

What knowledge on best agriculture practices can be transferred from senior to young farmers?

Choose from the following:

- A. Use of decomposed manure
- B. Use of organic mulching to preserve soil humidity, to suppress weeds and to enrich organic matter in the soil
- C. Grow open pollinated crops adapted to the season - not to be dependent on foreign hybrid varieties
- D. All of the above**

### Fishermen

How can youth collaborate with fishermen to help protect the marine environment?

Choose from the following:

- A. Participate in clean up activities
- B. Participate in sensitization campaigns to raise awareness of beach users on the importance of a clean marine environment
- C. Participate in mangrove plantation activities
- D. All of the above**

### Did you know?

The United Nations Framework Convention on Climate Change (UNFCCC) extended a constituency status to admit youth NGOs, allowing them to receive official information, participate in meetings, request speaking slots and receive logistical support at UNFCCC conferences



## Zero net emissions

The net input of carbon dioxide to the atmosphere due to human activities is zero.

### Student/Youth

**How can you contribute to cut emissions at school?**

Choose from the following:

- A. Switch off lights when not in use
- B. Encourage tree planting within the school yard
- C. Encourage waste sorting at school

**D. All of the above**

### Family

**How can you contribute to cut emissions at home?**

Choose from the following:

- A. Switch off lights when not in use
- B. Do not leave appliances/equipment in standby mode for long periods, instead switch them off
- C. Buy local products

**D. All of the above**

### Seniors

**How can you contribute to cut emissions?**

Choose from the following:

- A. Switch off lights/appliances when not in use. Do not leave appliances / equipment in standby mode for long periods
- B. Plant trees in your back yard. Trees absorb carbon dioxide
- C. Use public transport and walk short distances

**D. All of the above**

### Farmers

**How can you contribute to cut emissions in the agriculture sector?**

Choose from the following:

- A. Reduce the use of chemical fertilisers
- B. Favour the use of manure and compost
- C. Capture methane (CH<sub>4</sub>) from manure to produce renewable energy

**D. All of the above**

### Fishermen

**How can mangrove plantations be beneficial to fishermen and the tourism industry?**

Choose from the following;

- A. Attract a variety of fish species and serve as a fish nursery
- B. Attraction for tourists
- C. Generate income for fishermen and tourist guides

**D. All of the above**

### Did you know?

To limit warming to two degrees, carbon dioxide emissions from the energy sector need to fall to zero between 2040 and 2070, falling "below zero" thereafter (Intergovernmental Panel on Climate Change's (IPCC))