#### PENANG SANGAM HIGH SCHOOL P.O.BOX 44, RAKIRAKI LESSON NOTES WEEK 2

Subject: Home	Economics	Year/Level: 12
Strand	Home Management	
Sub Strand	Housing	
Content	• Explain climate change	
Learning	• Discuss the effects of c	limate change.
Outcome		-

## **Climate Change**

- Is a change in global or regional climate patterns, in particular a change apparent from the mid to late 20th century onwards and attributed largely to the increased levels of atmospheric carbon dioxide produced by the use of fossil fuels.

- A long-term change in the earth's climate, especially a change due to an increase in the average atmospheric temperature.

## Effects of Climate Change

## 1. Coastal erosion

• Water resources and human settlement on Pacific small islands will be at increasing risk with changes in temperature, rainfall and sea level rise.

• Increased in flooding cause sea level rise and causes soil erosion in coastal areas.

# 2. Drought

• Changing rainfall pattern will lead to water shortages and food shortage which is a major problem in many countries.

# 3. **Floods**

• Before floods used to happen only once in 100 years now take place every 10 or 20 years.

• It can be disastrous and can destroy houses, ruin lives and threaten wildlife.

# 4. **Fire**

• Fire seasons results as spring runoff in summer whereby heat builds up more quickly.

• Intensive fire are causing more damage and putting wildlife more at risk.

## 5. **Rising in temperature**

• Greenhouse gases are trapping more heat in the Earth's atmosphere, which is causing average temperatures to rise all over the world.

## 6. Change in Landscapes

• Hot, dry forests, rising sea levels environmental changes brought on by global warming take a heavy toll on wildlife and human communities that rely on any given landscape for food, water, shelter, and income.

## 7. **Storms**

• As temperatures continue to rise, more and more water vapor could evaporate into the atmosphere, and water vapor is the fuel for storms.

#### 8. Illnesses

• Weather and climate play a vital role in people's health. Changes in climate affects the average weather conditions that we are accustomed to.

• Warmer average temperatures will likely lead to hotter days and more frequent and longer heat waves.

• This could increase the number of heatrelated illnesses and deaths.

• Impacts from Heat waves can lead to heat stroke and dehydration, and are the most common cause of weather-related deaths.

• Young children, older adults, people with medical conditions, and the poor are more vulnerable than others to heat-related illness.

#### 9. Climate – Sensitive Diseases

i. *Food-borne disease* - higher air temperatures can increase case of salmonella and other bacterialrelated food poisoning because bacteria grow more rapidly in warm environments.

These diseases can cause gastrointestinal distress and in severe cases death.

i. Water borne diseases

• Heavy rainfall or flooding can increase water borne parasites such as Cryptosporidium and Giardia that are sometimes found in drinking water. These parasites can cause gastrointestinal distress and in severe cases, death.

- ii. Animal-borne diseases
- Mosquitoes favor warm, wet climates and can spread diseases such as dengue fever and malaria.
- iii. Economic loss

• Climate change is affecting businesses and economies at home and around the world. More intense hurricanes and downpours could cause billions of dollars in damage to property and infrastructure.

• High sea temperatures also threaten the survival of coral reefs, which generate income for Fiji in the food market as well as in the tourism industry. Sea -level rise, floods, droughts, wildfires, and extreme storms require extensive repair of essential infrastructure such as homes, roads, bridges, railroad tracks, airport runways, power lines, dams, levees, and seawalls.

iv. Mass migration and security threats.

• Global warming is likely to increase the number of "climate refugees" —people who are SANGAM EDUCATION BOARD – ONLINE RESOURECS

forced to leave their homes because of drought, flooding, or other climate -related disasters. Mass movements of people and social disruption may lead to civil unrest, and might even spur military intervention and other unintended consequences. v. Lost productivity. Disruptions in daily life related to climate change can mean lost work and school days and harm trade, transportation, agriculture, fisheries, energy production, and tourism.

# **Activity**

- 1. In your words, define climate change.
- 2. Identify and explain two effects of climate change in your community or society.
- 3. Discuss the 3 climate sensitive diseases.