### **Removal of Carbon Dioxide:**

- 1. Photosynthesis rainforests trap carbon dioxide through photosynthesis and have been important in maintain the low level of atmospheric carbon dioxide. Humans have upset this balance by deforesting vast areas of forest for agriculture and timber production. This means that less carbon dioxide is absorbed and quite often the vegetation is burnt so more carbon dioxide is released.
- 2. Dissolves in oceans.

## **Formation of Water Vapour:**

- 1. Water from oceans evaporates.
- 2. Transpiration in plants.

## **Removal of Water Vapour:**

1. Precipitation.

#### Methane:

- Produced by human activity when organic waste decomposes in landfill sites.
- Comes from rice fields as bacteria respire anaerobically more rice is being planted as the human population increases.
- Comes from cattle farming more cattle are being farmed for meat. Cattle release methane from their digestive systems as they process their food.
- Each methane molecule is 23 times more effective at trapping heater ergy compared to a molecule of carbon dioxide but has less of an impact of global warming because it is present in much smaller amounts in the art carbon ergo.

# Damage of Greenhouse Gases

Two things determine by darnaging a greenhouse gas is:

- The contration of the rain in the rumosphere.

  This is affected by the rate at which it is released and how long it remains there.
- How good it is at absorbing long wave radiation.

## **HFCs as Greenhouse Gases:**

Chlorofluorocarbons (CFCs) were used in aerosols and as refrigerants but were found to damage the ozone layer when released into the atmosphere. They are being replaced by hydrofluorocarbons (HFCs), but this is leading to an additional problem because HFCs are greenhouse gases. Damage to the ozone layer is not a cause of the greenhouse effect of increased global temperature.

# **Effects of Global Warming:**

- Melting ice caps and glaciers.
- A rise in sea levels, causing flooding to low lying areas.
- Changes in the pattern of climate and winds, leading to changes in ecosystems and the distributions of plants and animals. Some parts of the world may experience more storms and hurricanes. Changes in rainfall could lead to drought in some areas and flooding in others.
- Extinction and resultant loss of biodiversity.