

**Greenhouse Gases**- Human activity increases the Greenhouse gases.

| <b>Gas</b>     | <b>Human Activity</b>  | <b>Possible Solutions</b> | <b>I wonder?</b> |
|----------------|--|---------------------------|------------------|
| Carbon Dioxide | *Burning fossil fuel-coal, oil for electricity and transport       |                           |                  |
| Methane        | *Farming of cows and sheep<br>*Using flooded land for growing rice |                           |                  |
| Nitrous Oxide  | *Using fertilisers   |                           |                  |

## Global Warming

Scientists make predictions about the effects of global warming.

### **Possible Effects of Global Warming in Antarctica**

In groups read a page each. Find out what impact global warming will have on Antarctica.

| <b>Possible Event</b>                          | <b>Predicted Result</b>  | <b>Impact in Antarctica</b> |
|--|--|-----------------------------|
| Warmer temperatures on the Antarctic Peninsula | Break up of ice shelf<br>Smaller area of ice shelf<br>Rising global sea levels | *<br><br>*                  |
| Smaller area of winter sea ice                 | Fewer krill and phytoplankton  | *<br><br>*                  |
| More snowfall                                  | Faster moving ice sheet and glaciers   | *                           |
| Reduced Recovery of Ozone Layer                | Fewer phytoplankton<br>Less protection from the damaging rays of the sun.      | *<br><br>*                  |

