

## Evidence of Global Warming

The ice in the Arctic is \_\_\_\_\_ quickly. Soon there may be no ice at all in the Arctic. Hurricanes and typhoons have \_\_\_\_\_ in number and strength. In 2012, a deadly typhoon in the Philippines \_\_\_\_\_ more than one thousand people, and hurricane Sandy caused great \_\_\_\_\_ in the east coast of the USA. Recent droughts and floods have \_\_\_\_\_ people's homes, food, and lives.

## Understanding Extreme Weather and Global Warming

Global warming is the \_\_\_\_\_ in average temperature of the Earth. Many people believed that recent \_\_\_\_\_ were caused by global warming. Because of the complexity of weather, nobody knows if a single natural disaster like the 2012 typhoon in the Philippines was \_\_\_\_\_ by global warming. However we do know that the number and \_\_\_\_\_ of natural disasters has increased as our planet has grown warmer.

## **The Greenhouse Effect, the Cause of Global Warming**

\_\_\_\_\_ including carbon dioxide are responsible for global warming. When sunlight shines on the Earth, some is absorbed as \_\_\_\_\_ and some is reflected as \_\_\_\_\_. Part of the reflected sunlight returns to space. Another part is \_\_\_\_\_ by greenhouse gases and warms the Earth. The heat trapped by the greenhouse gases is known as the greenhouse effect and is the \_\_\_\_\_ that causes global warming.

## **The Greenhouse Effect and the Natural History of the Earth.**

Greenhouse gases have been in our \_\_\_\_\_ since almost the beginning of the Earth about 4.6 billion years ago. The levels of Greenhouse gases have kept the \_\_\_\_\_ of the Earth relatively stable during this time. Throughout in the history of the Earth, there have been periods of both global \_\_\_\_\_ and global \_\_\_\_\_. However, these periods took place over great periods of time, allowing life on Earth to \_\_\_\_\_.