

THEME 3

BALANCE AND

MANAGEMENT OF THE

ENVIRONMENT

LEARNING AREA

**PRESERVATION AND CONSERVATION
OF THE ENVIRONMENT**

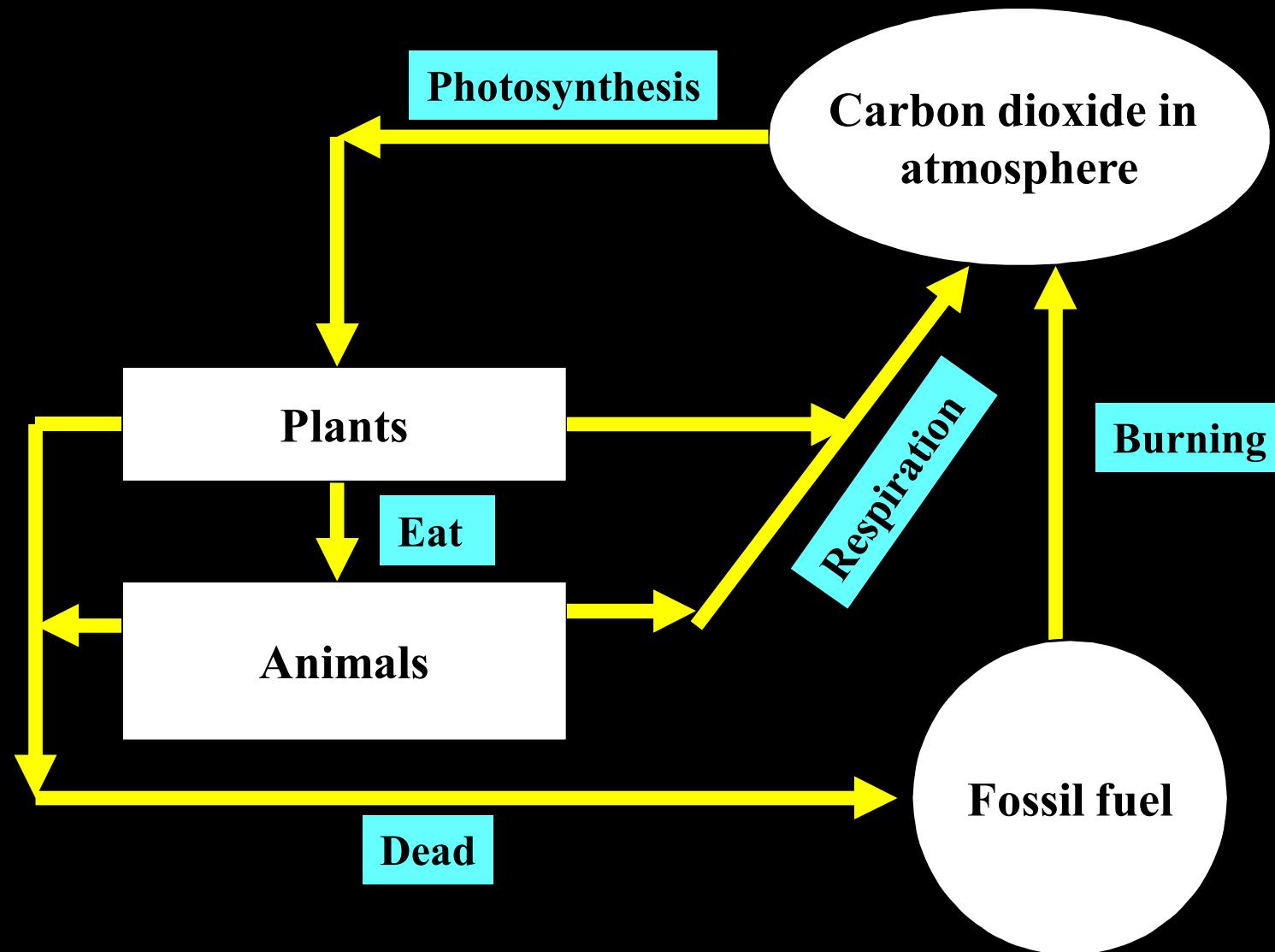
Balance In Nature

- Interaction among animals, plants and the abiotic or non-living parts of environment

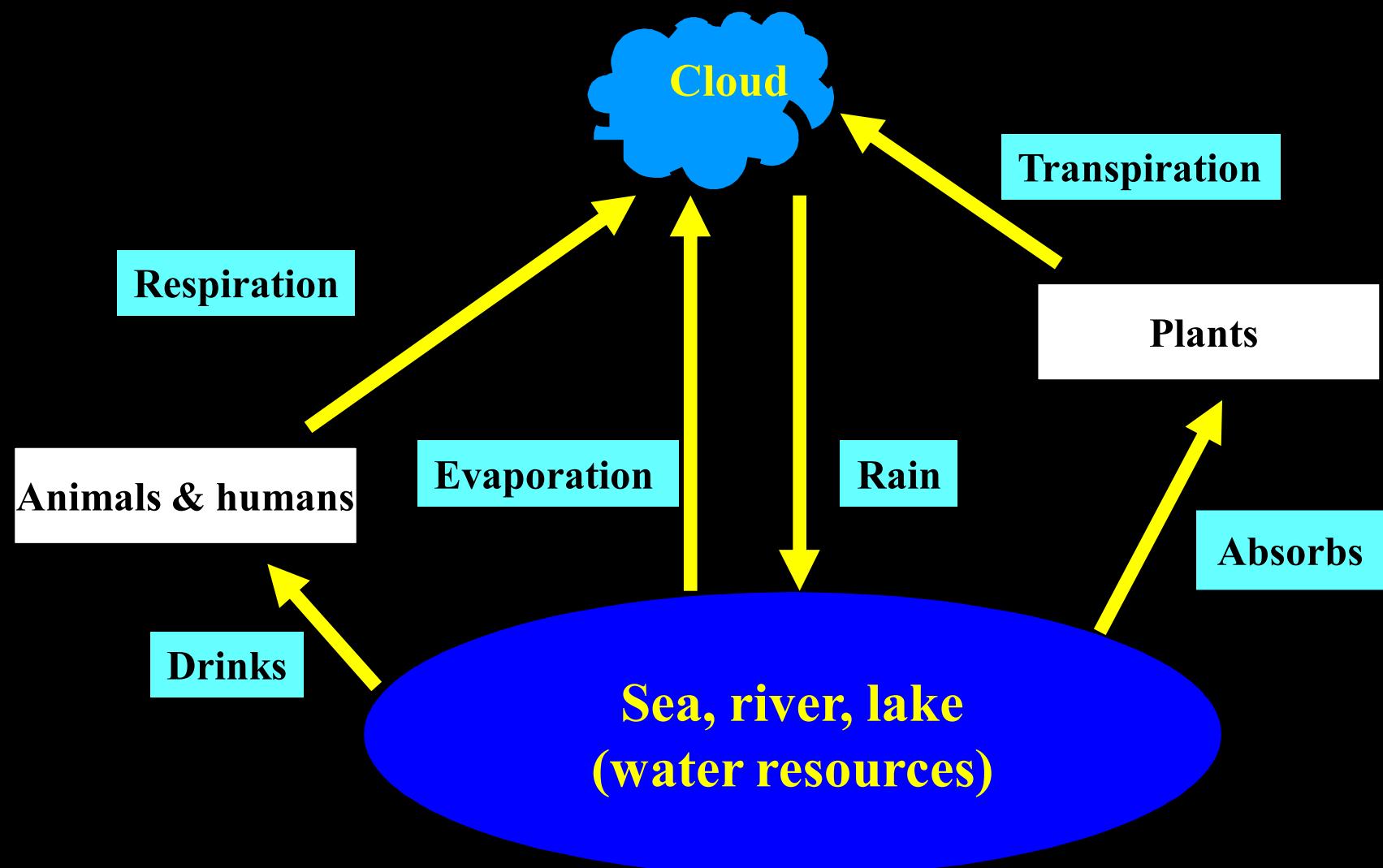
Natural cycles

- Nitrogen cycle
- Carbon cycle
- Water cycle

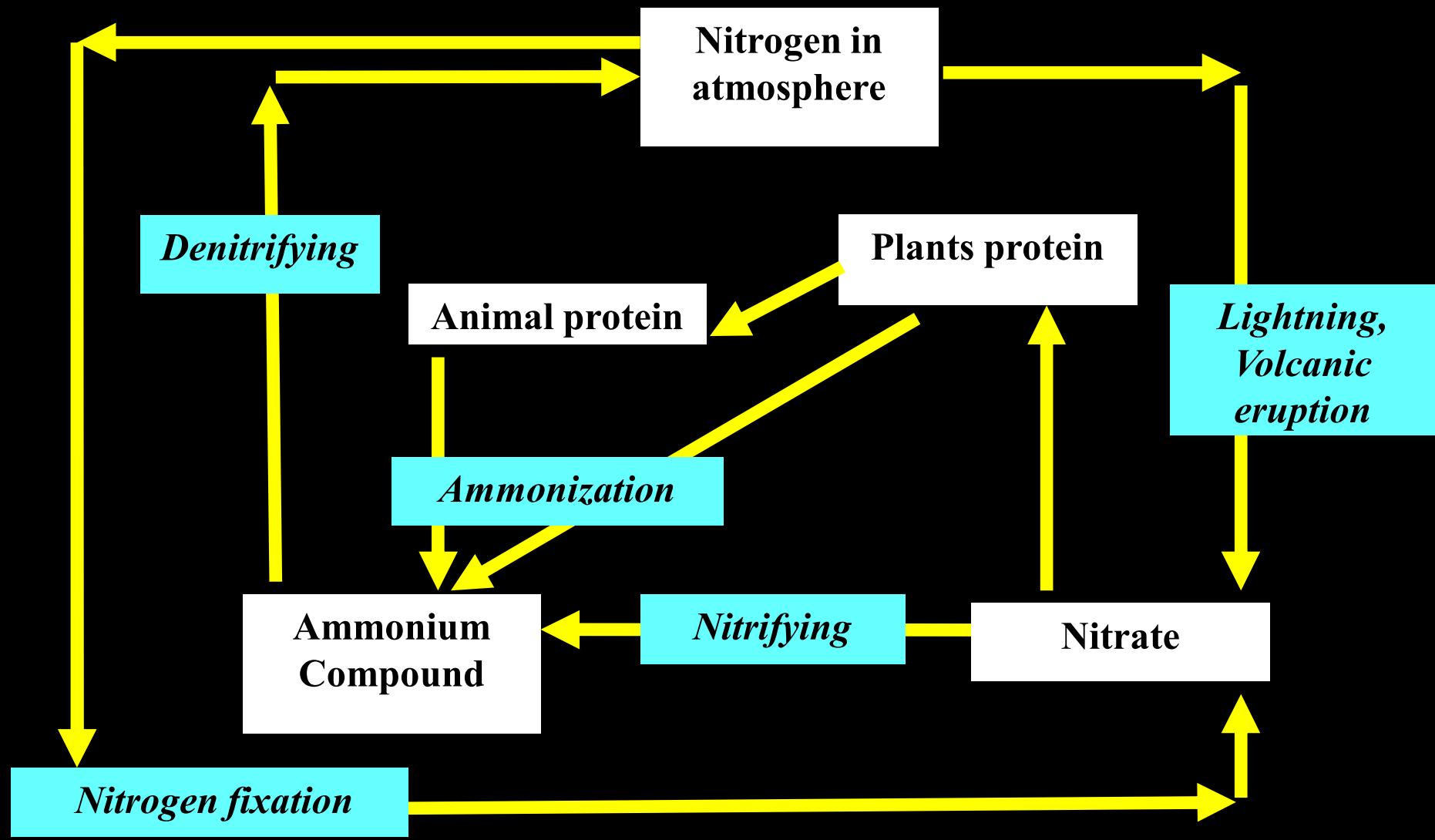
The Carbon Cycle



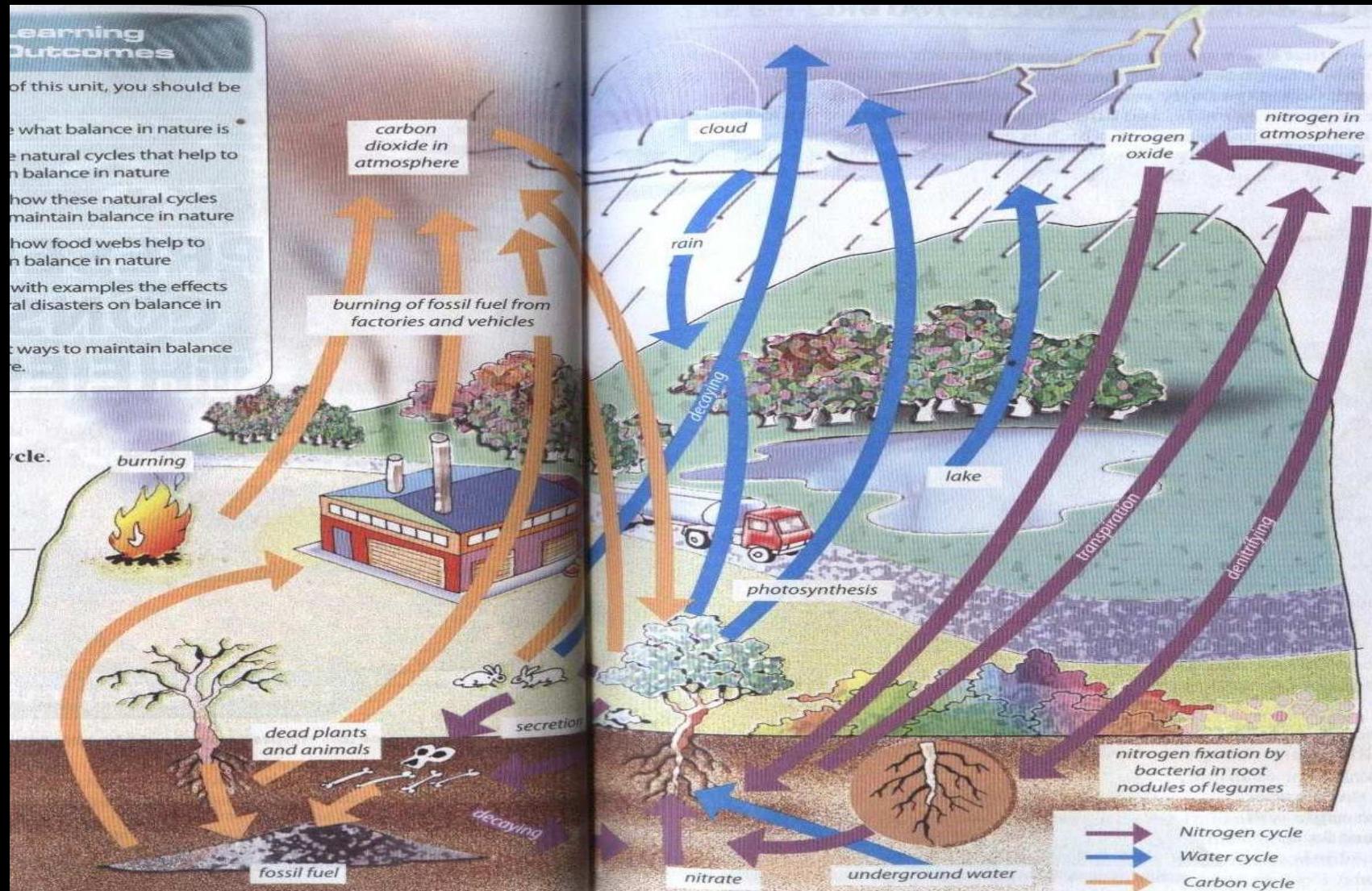
The Water Cycle



The Nitrogen Cycle



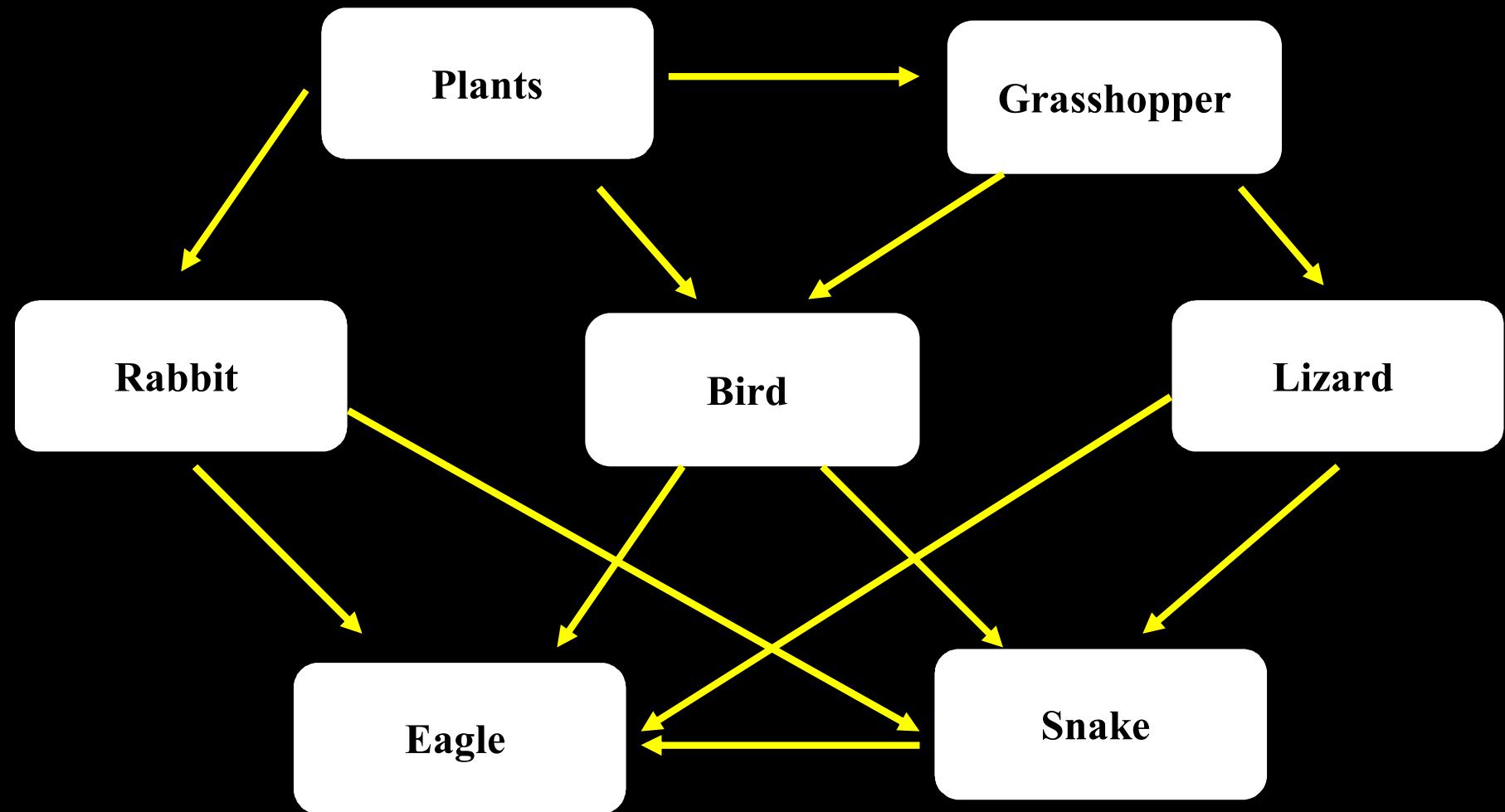
Natural Cycle



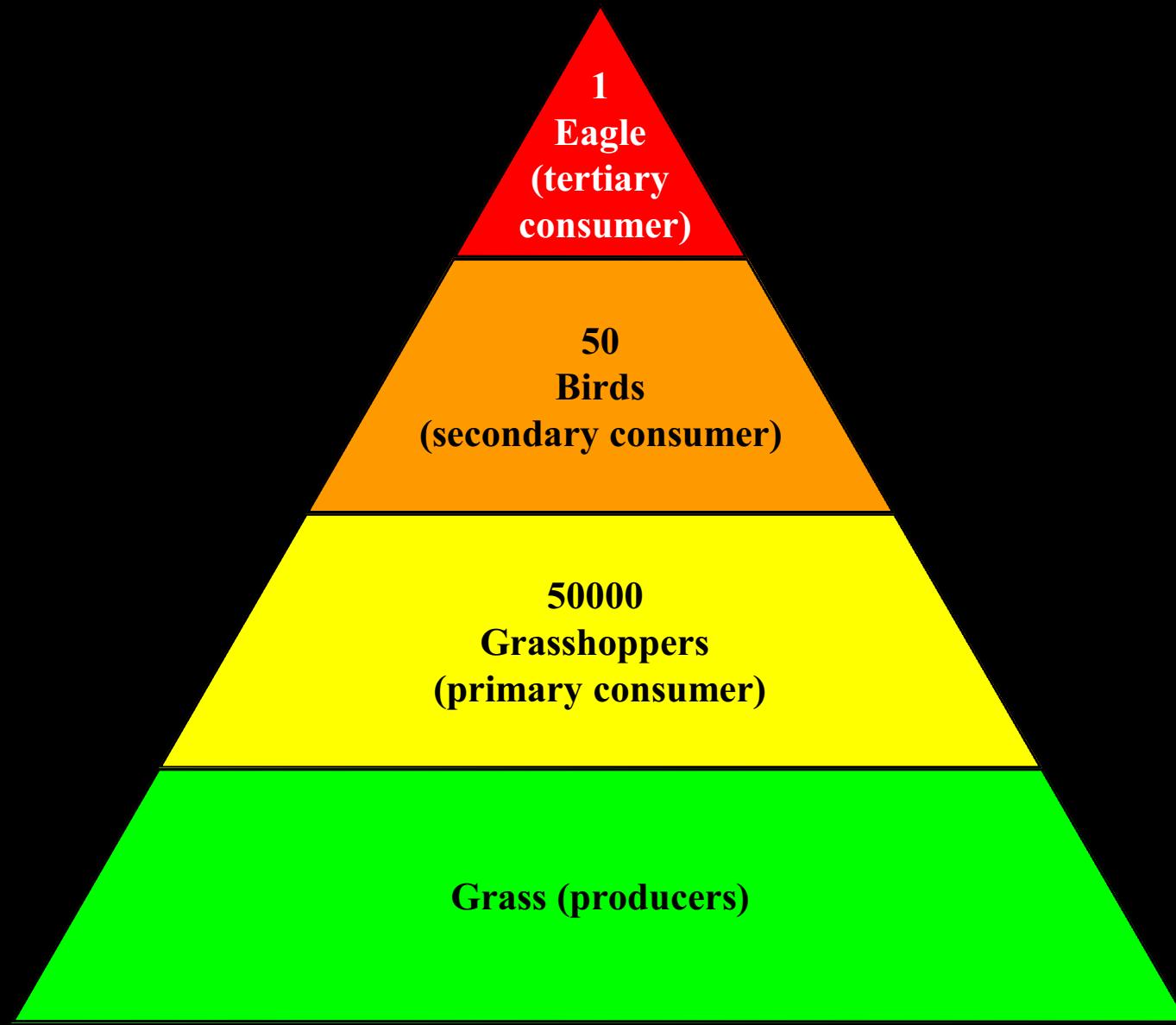
Food Web

- Food chain - series of living thing each of which is eaten by the next in line
- Food web - series of interlinked food chains
- The function of food web:
 - to maintain balance in nature by controlling the number of organisms at every trophic level in a food chain

Food Web

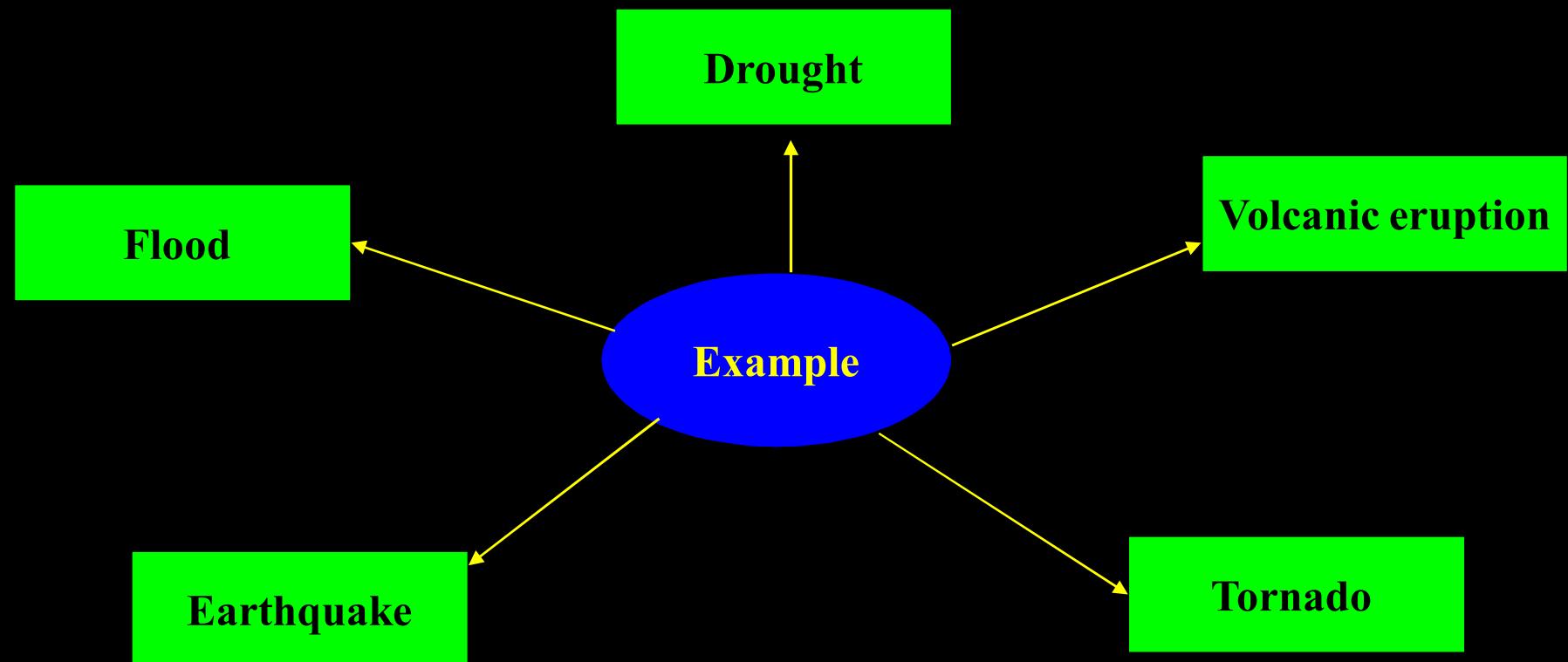


Pyramids of Numbers



Natural Disaster

- Natural disasters are natural phenomena that can affect the balance in nature.



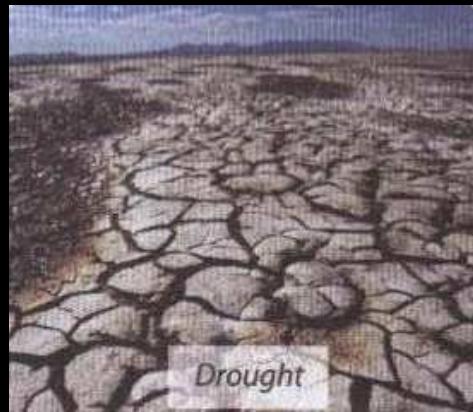
Natural Disaster



Flood



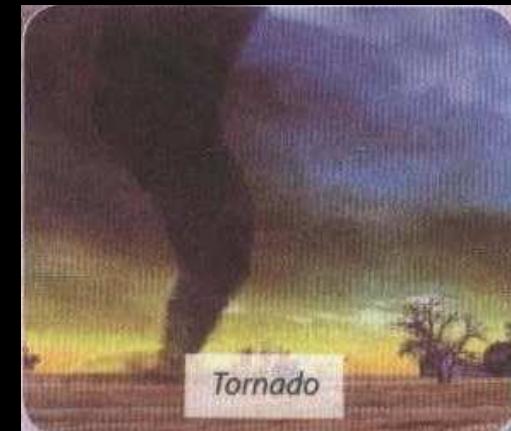
Earthquake



Drought



Volcanic eruption

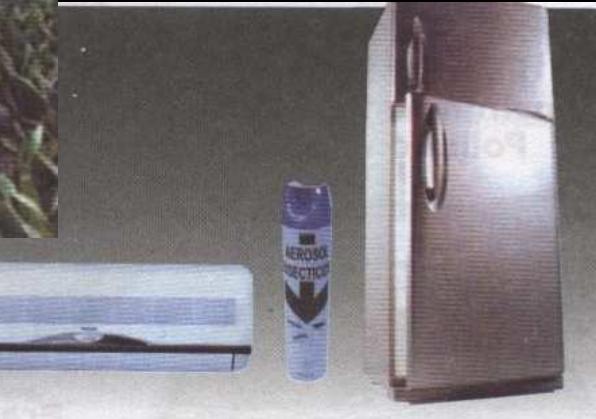
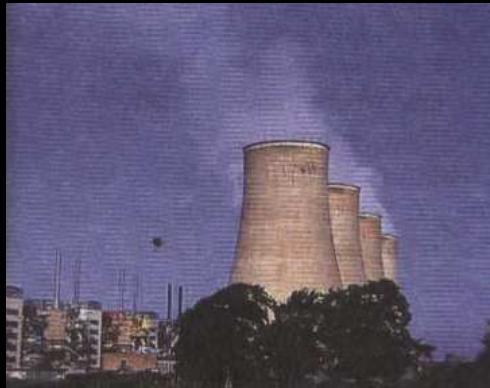


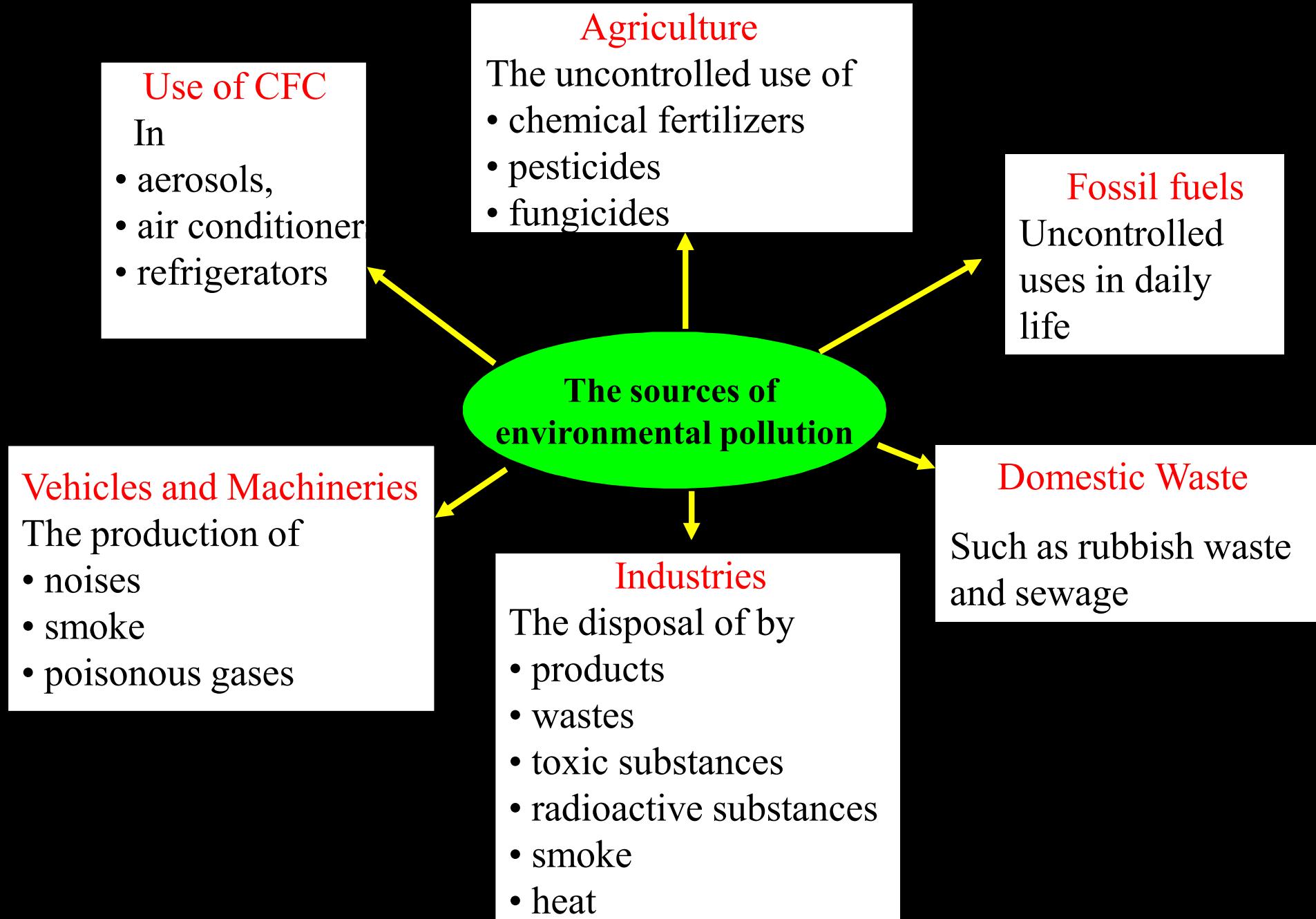
Tornado

Types of environmental pollution

- Air pollution
- Water pollution
- Soil pollution
- Pollution cause by solid waste
- Pollution cause by hazardous waste
- Noise pollution

Environmental Pollution





Damage of the ozone layer

Haze

Use of CFC

Air pollution by open burning

Effects of environmental pollution

Extinction of species

The polar ice melt

Water pollution by use of toxic substances, chemical fertilizer, rubbish

Global warming by green house effect

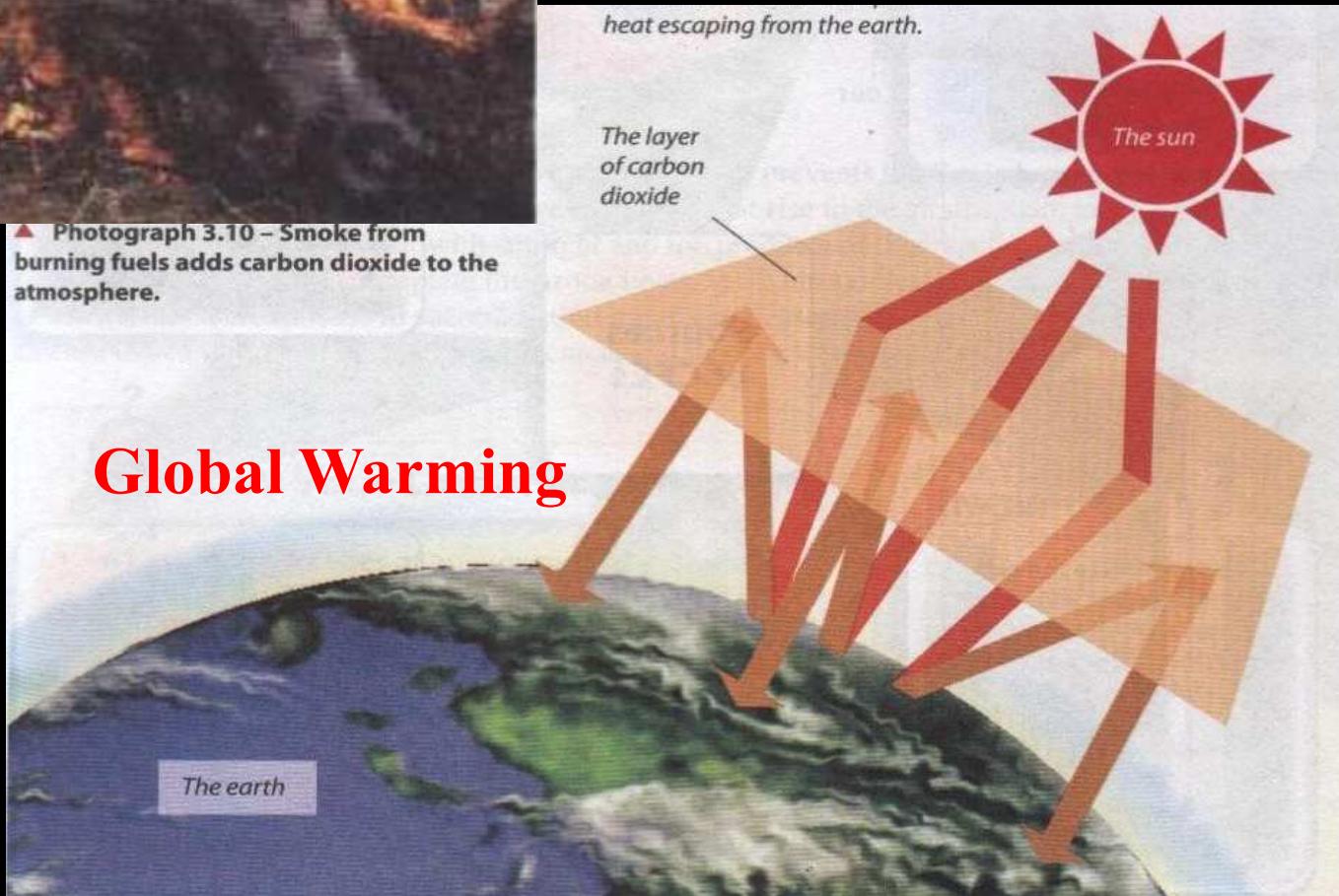
Global Warming

Global warming - the term used to describe the way in which increasing levels of carbon dioxide in the air causing a rise in average temperature around the world

The dense layer of carbon dioxide traps the Sun's heat around the Earth causing the **Greenhouse effect**



▲ Photograph 3.10 – Smoke from burning fuels adds carbon dioxide to the atmosphere.



Ozone layer

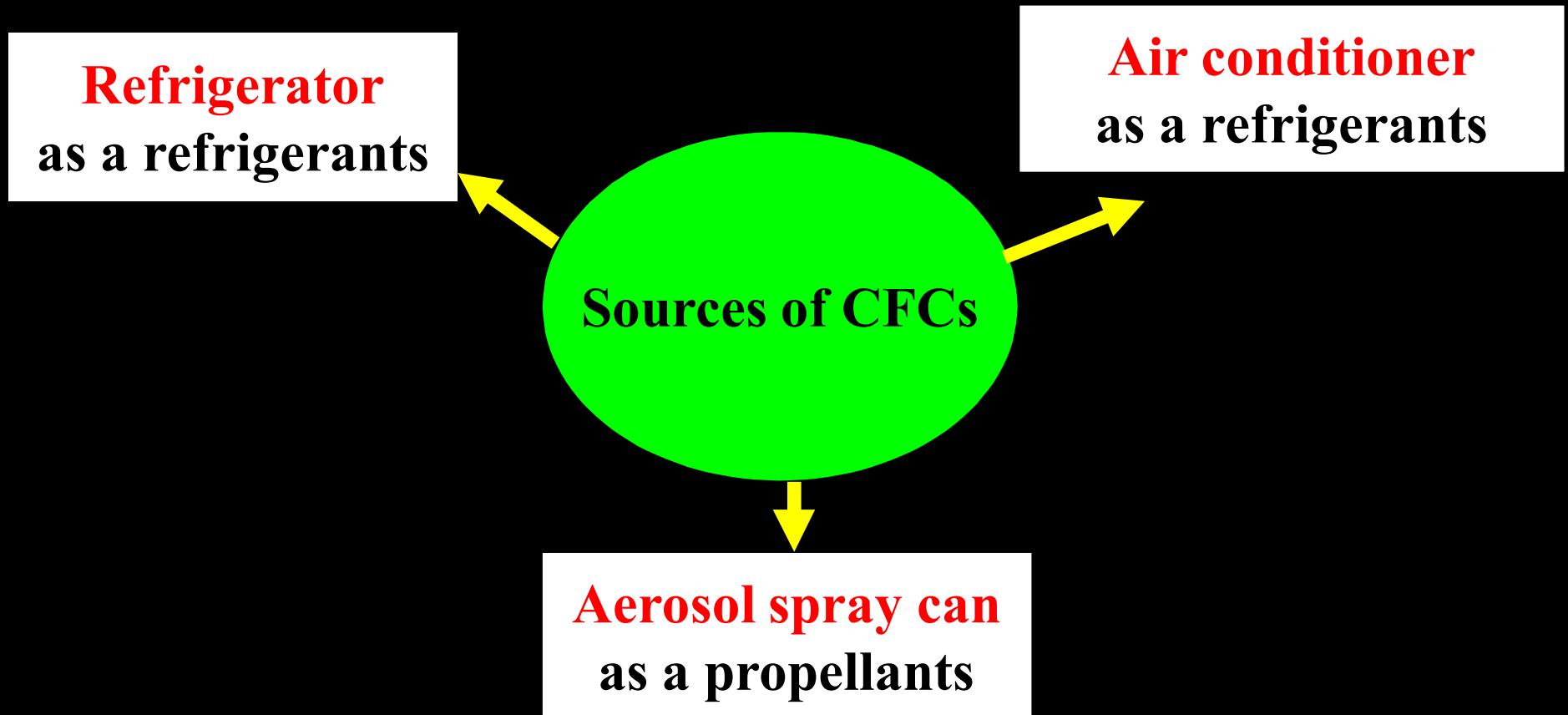
Ozone layer - a layer of ozone gas that absorbs most of the Sun's harmful ultraviolet radiation, preventing it from reaching the Earth

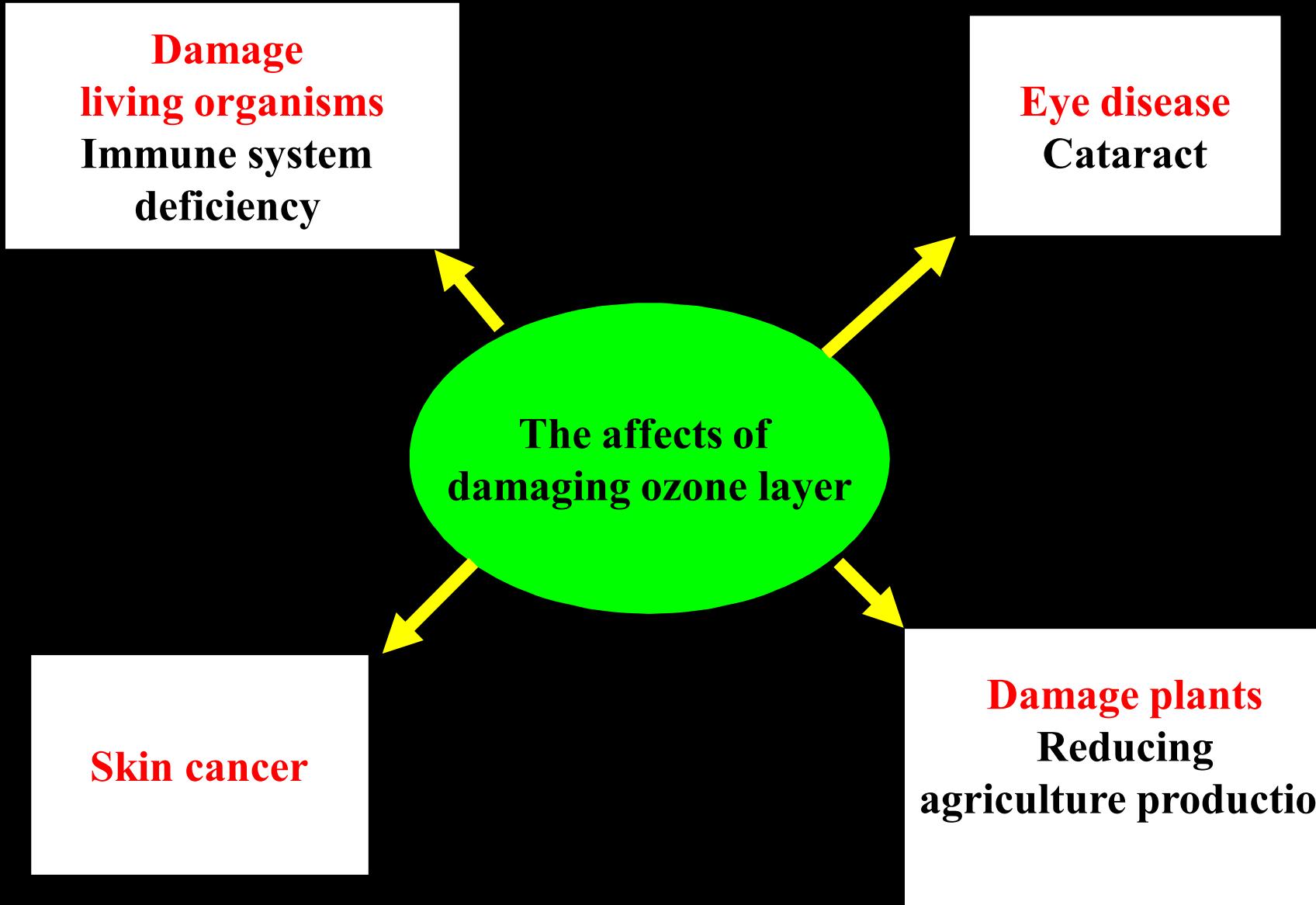
The importance of ozone layer

The ozone layer acts **as a protective shield** which prevents the Sun's harmful ultraviolet radiation from reaching the Earth

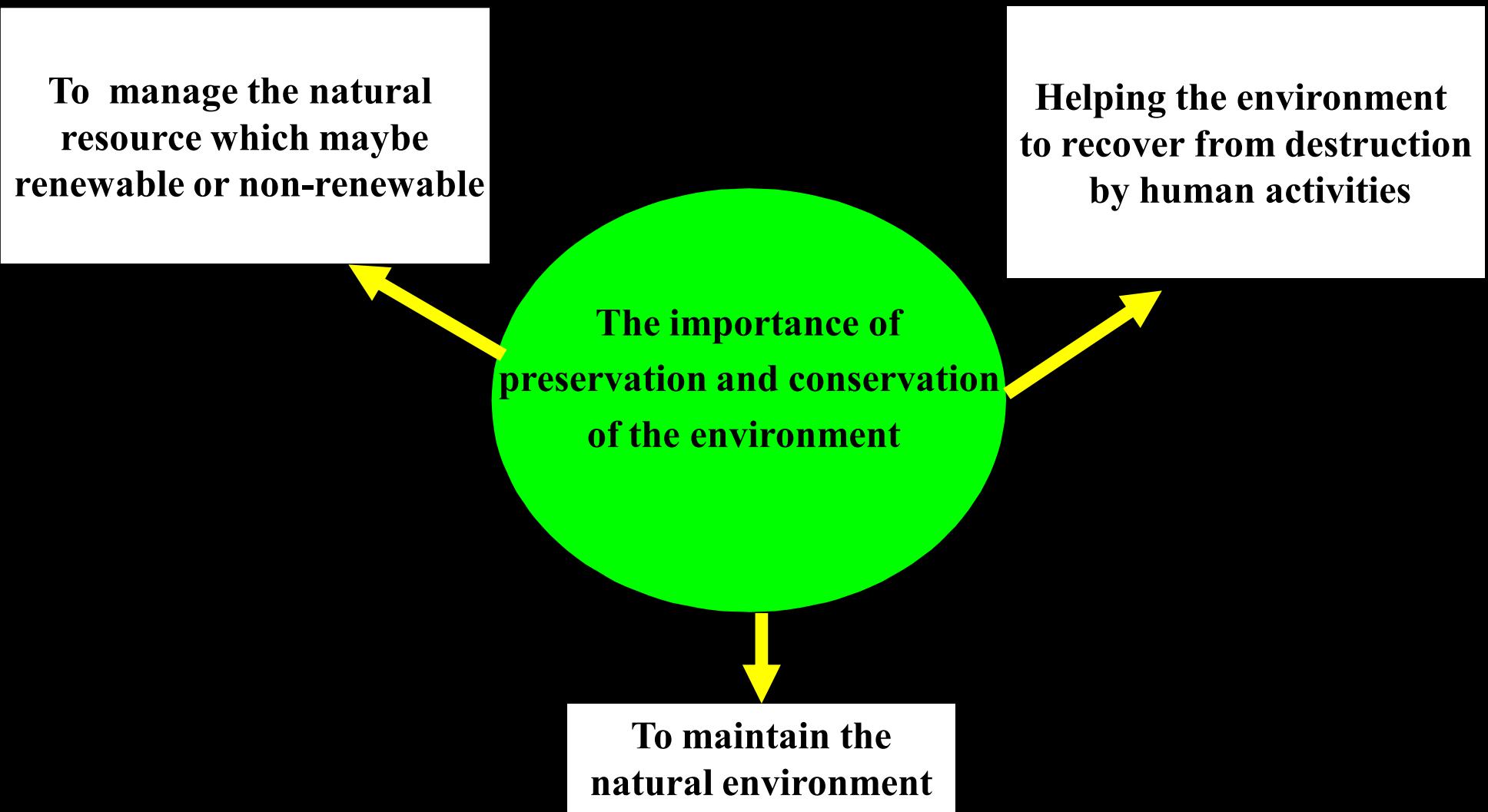
Chlorofluorocarbon (CFC)

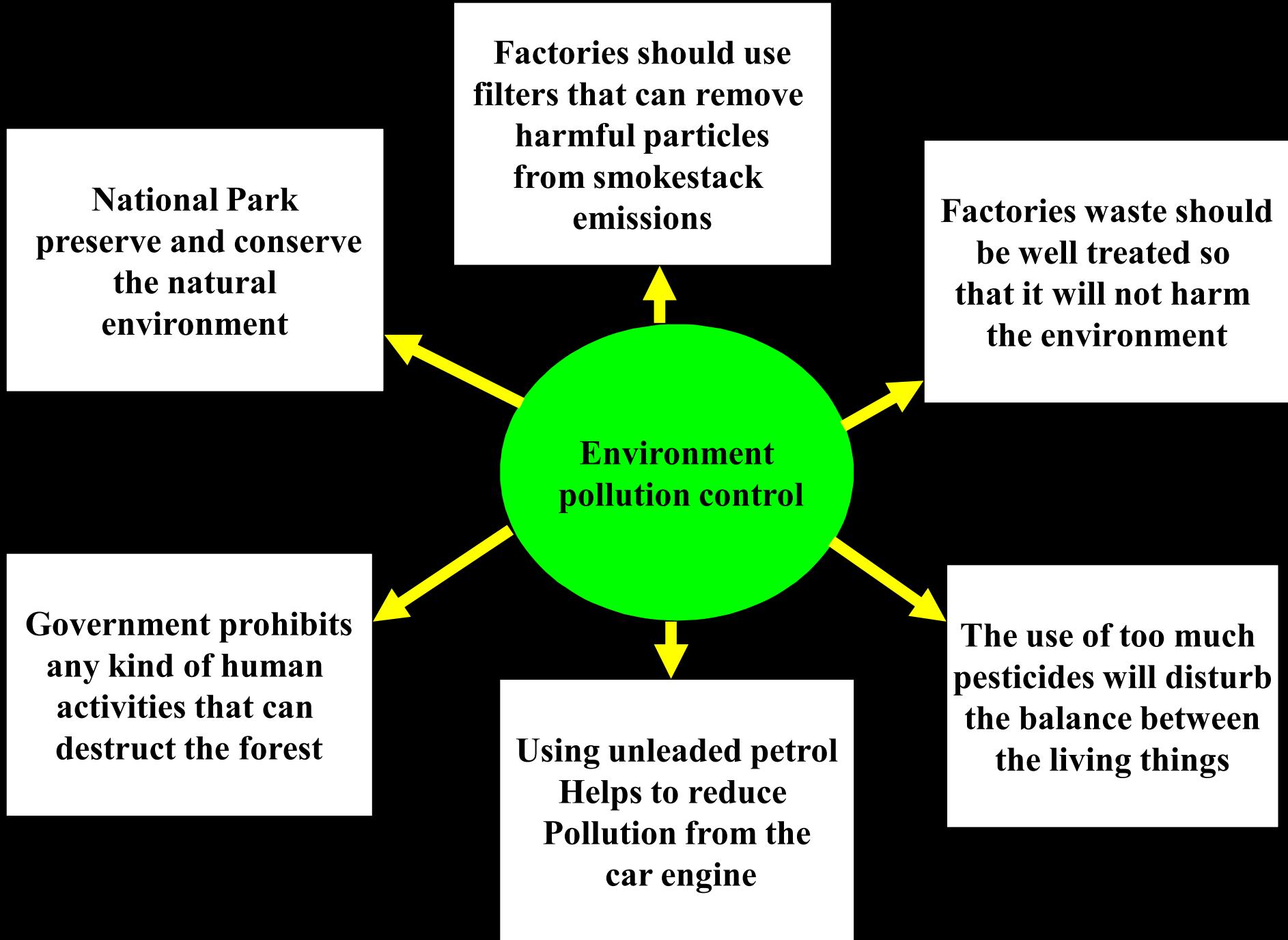
is the chemical that can damage the ozone layer





Preservation and conservation of the environment and pollution control





Mining and quarrying activities can cause environmental damage such as land erosion

Uncontrolled logging destroys natural habitats and ruins the ecosystem

Fossil fuels are limited And cannot be reused so excessive use of fossil fuels can caused not enough natural resources in the future

The effects of improper management of natural resources

Improper land clearing can caused flash flood especially when raining time

Keep the
environment
clean



Stop open
burning

Plant more trees



Responsible attitudes
to preserve and
conserve the
environment

