

# ECOLOGICAL PROBLEMS



# Theme: Ecological Problems

The aims of the lesson:

- The educational aim: to give some information about ecological problems
- The developing aim: to develop PP speaking, reading, listening skills
- The training aim: to practice asking and answering the questions
- The methods: traditional, work with groups

# The equipment of the Lesson

Projector

Blackboard

Computers

Cards

Posters

# What is the Ecology???



**Ecology** is the scientific study of the relation of living organisms to each other and their surroundings.

**Ecology** includes the study of plant and animal populations, plant and animal communities and ecosystems.

# Ecological problems are:

- Overuse of pesticides
- Climate change
- Urban development
- Global warming
- Genetically modified foods
- Toxic waste
- Solar and wind power
- Recycling scheme



# Overuse of pesticides

A pesticide is any substance or mixture of substances intended for preventing, destroying, repelling or mitigating any pest.



A pesticide may be a chemical substance, biological agent (such as a virus or bacterium), antimicrobial, disinfectant or device used against any pest.

# CLIMATE CHANGE



Climate change is a long-term change in the statistical distribution of weather patterns over periods of time that range from decades to millions of years.

It may be a change in the average weather conditions or a change in the distribution of weather events with respect to an average, for example, greater or fewer extreme weather events.

Climate change may be limited to a specific region, or may occur across the whole Earth.

# Urban development

Urban, city, and town planning integrates land use planning and transportation planning to improve the built, economic and social environments of communities.

Regional planning deals with a still larger environment, at a less detailed level.



Urban planning can include urban renewal, by adapting urban planning methods to existing cities suffering from decay and lack of investment



# Global Warming



Global warming is the increase in the average temperature of Earth's near-surface air and oceans since the mid-20th century and its projected continuation.

# Genetically modified foods

## Genetically modified (GM)

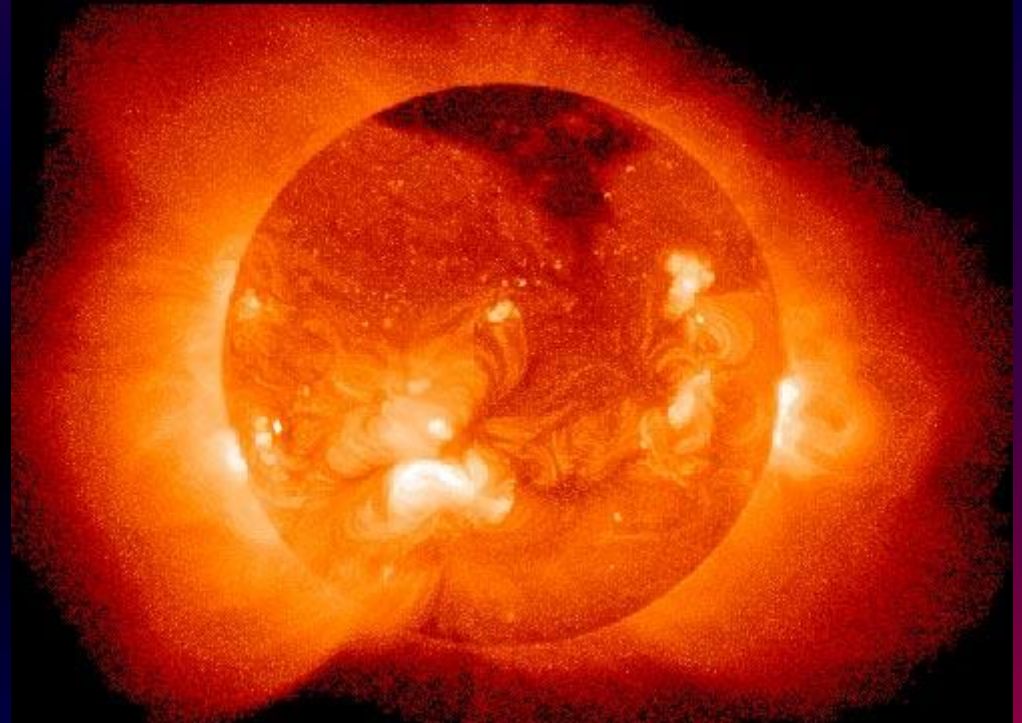
foods are foods derived from genetically modified organisms. Genetically modified organisms have had specific changes introduced into their DNA by genetic engineering techniques.

These techniques are much more precise than mutagenesis (mutation breeding) where an organism is exposed to radiation or chemicals to create a non-specific but stable change.



# Solar Power

Solar power is the conversion of sunlight into electricity, either directly using photovoltaics (PV), or indirectly using concentrated solar power (CSP).



# Wind Power



**Wind power** is the conversion of wind energy into a useful form of energy, such as using wind turbines to make electricity, wind mills for mechanical power, wind pumps for pumping water or drainage, or sails to propel ships.

# Recycling Scheme

**Recycling** involves processing used materials (waste) into new products to prevent waste of potentially useful materials, reduce the consumption of fresh raw materials, reduce energy usage, reduce air pollution (from incineration) and water pollution (from landfilling) by reducing the need for "conventional" waste disposal, and lower greenhouse gas emissions as compared to virgin production.



# Let's Save Our Planet

