

# ENVIRONMENT

Definition:

It is the sum total of external conditions within which an object, organism or community exists

It is the complex of physical, chemical and biotic factors (climate, soil & living things etc.) that act upon an organism and ultimately determine its form and survival

# ENVIRONMENTAL STUDIES

## Need:

Only environmental study can make us conscious and careful about the environment

Environmental study also teaches people to understand their role in the environment and learn to live with limited natural resources so as to avoid future disasters

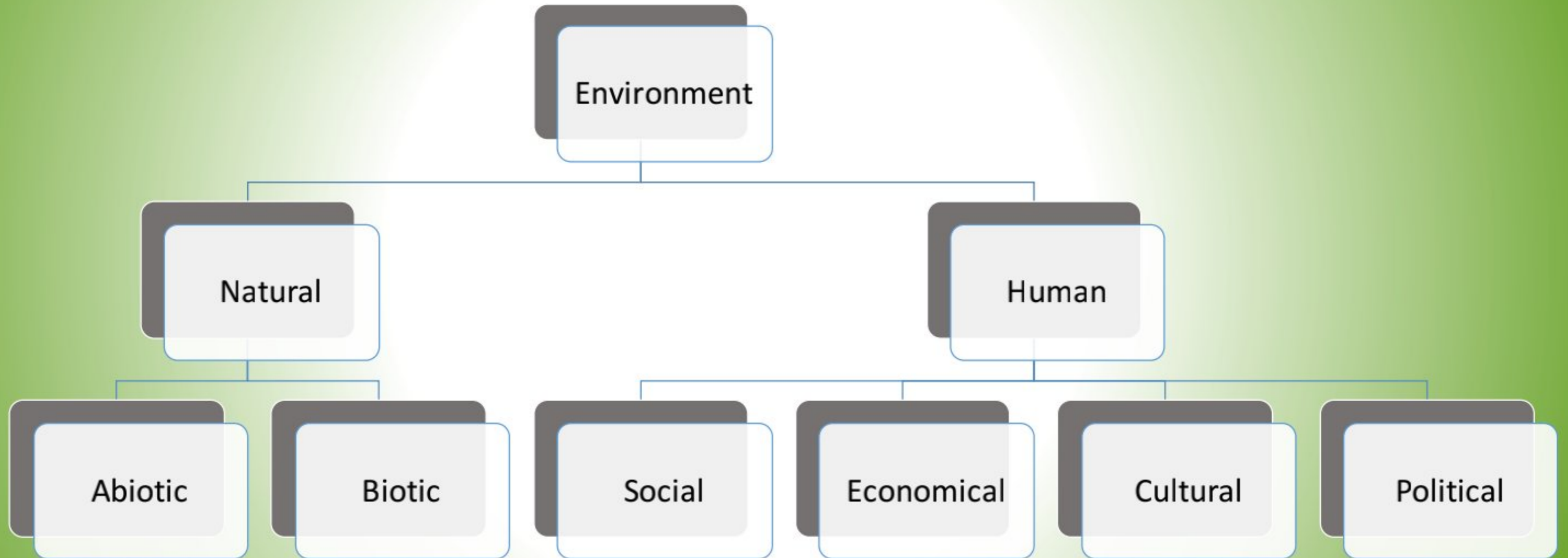
## Scope:

Green Business Initiatives  
CSR (Corporate Social Responsibility)  
Ecotels



# ENVIRONMENT

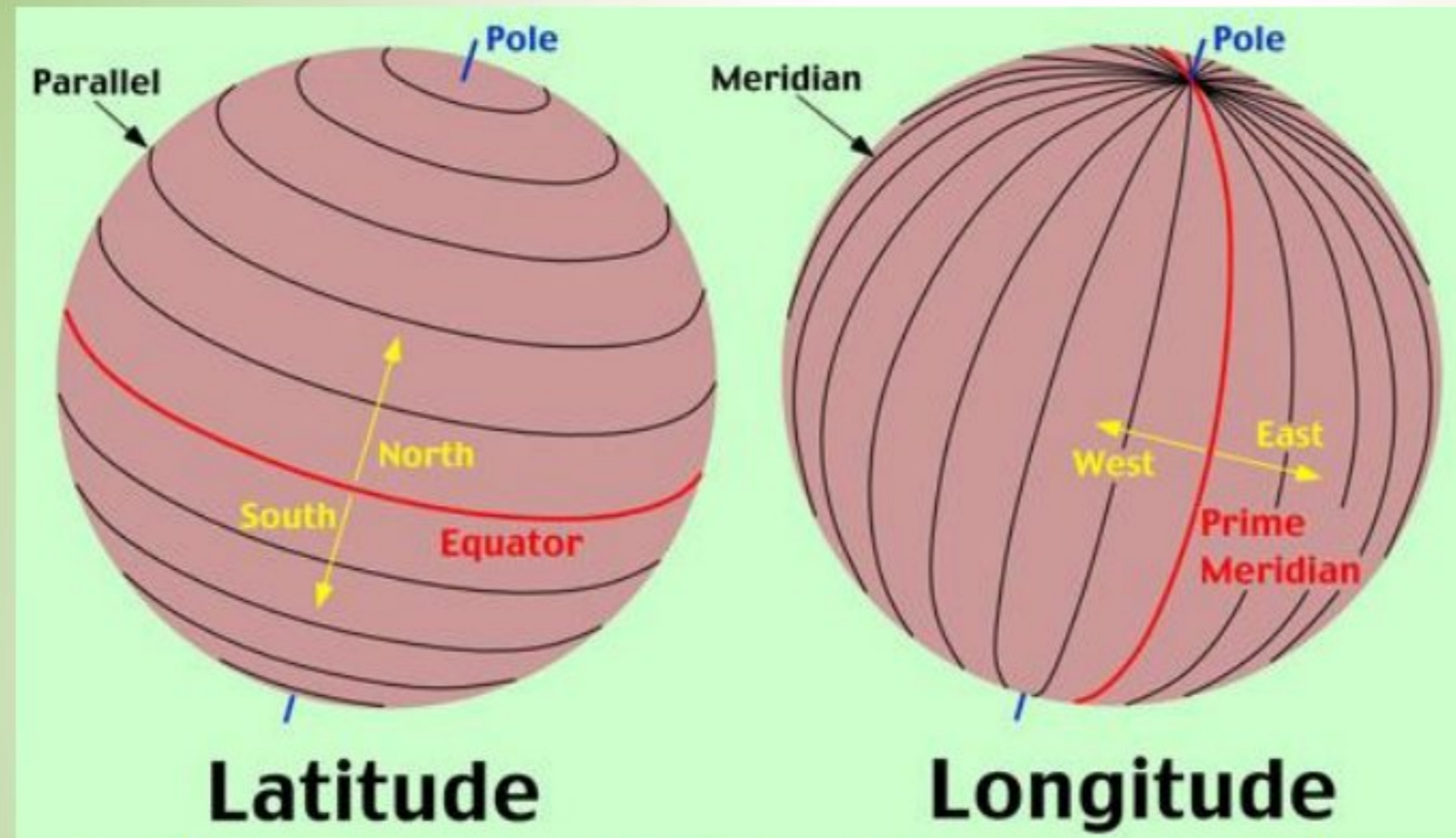
Components:





## Abiotic Components:

### 1. Location



### 2. Topography





### 3. Climate:



### 4. Size and shape of a country:





5. Coastlines:



6. Minerals:



7. Soil:





## Biotic Components:

### 1. Natural vegetation:



### 2. Animal life:



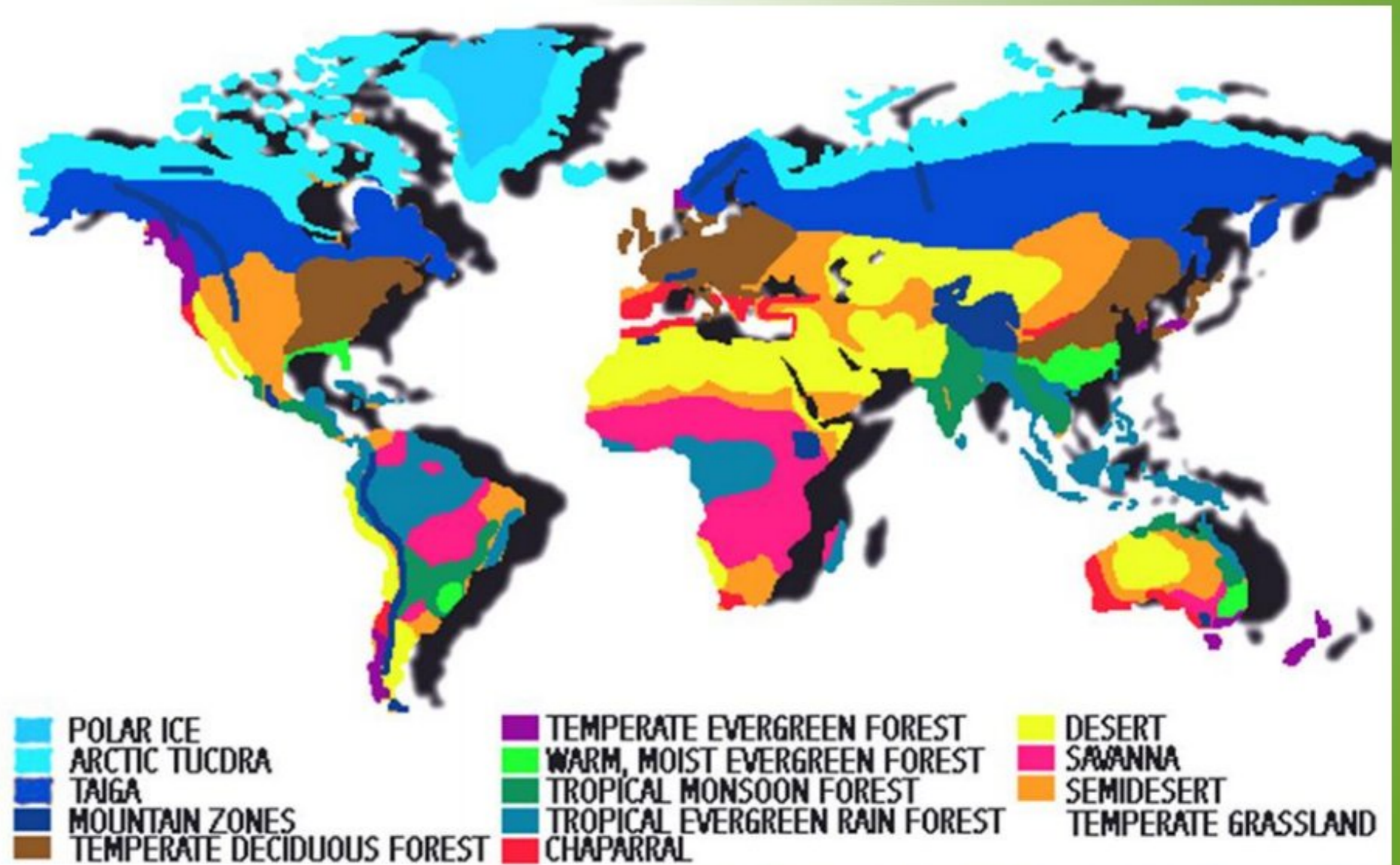


## Ecology:

The study of the interrelationships between life forms and their environment

## Ecosystem:

A region, usually a small one, where interaction between biotic and abiotic components results into exchange of energy and materials.





# Levels of Organization

**Ecology**

Galaxies > **Universe**

Solar Systems

Earth

Biosphere

Biomes

Ecosystems ←

Communities

Populations

Organisms

Organs

Tissues

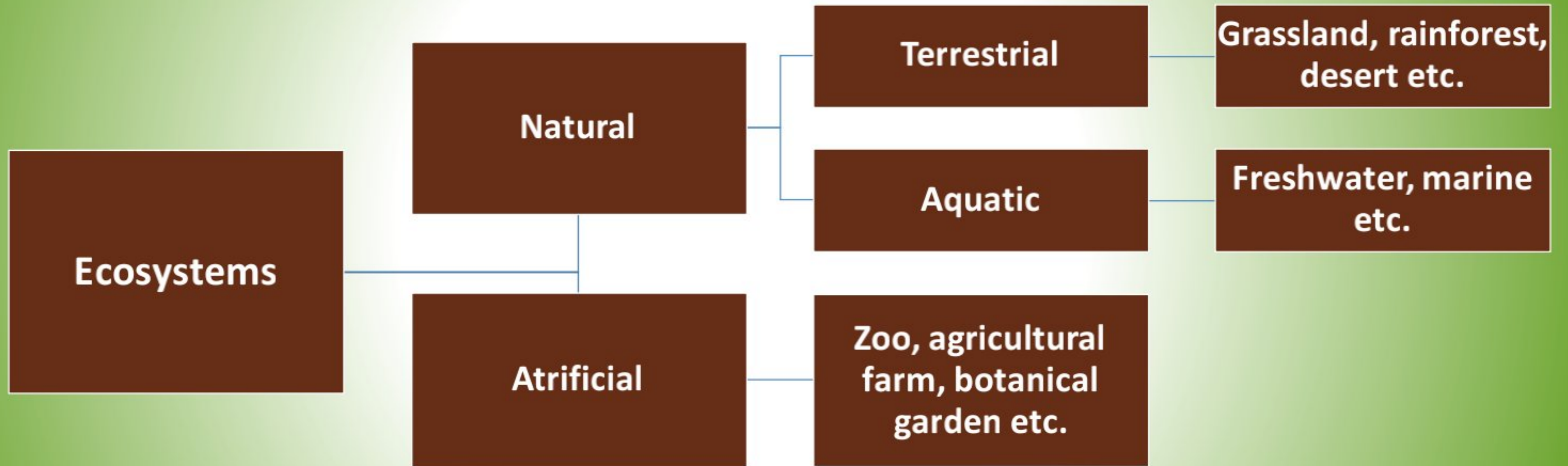
Cells

Protoplasm

Atoms > Molecules

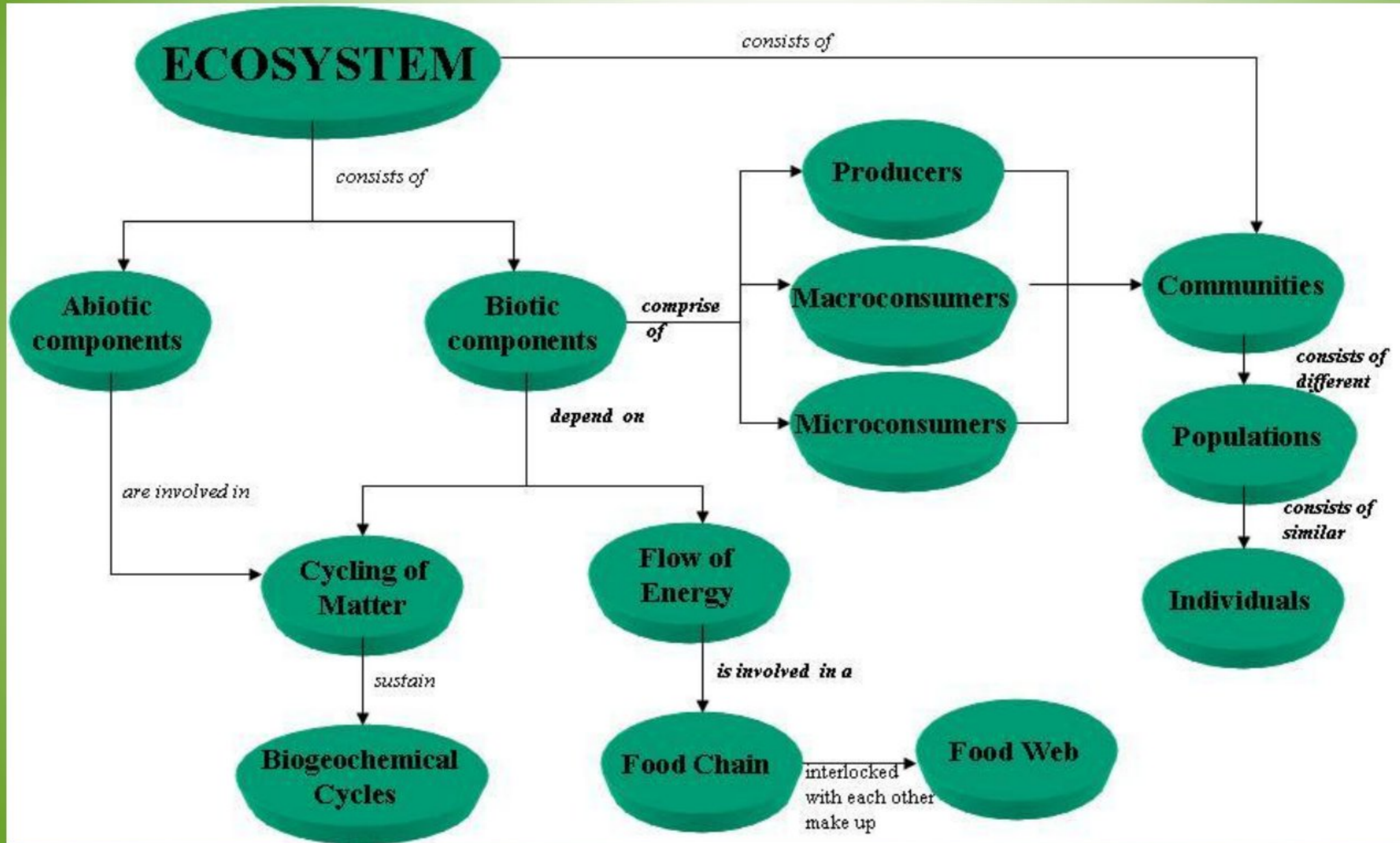


## Types of ecosystems:



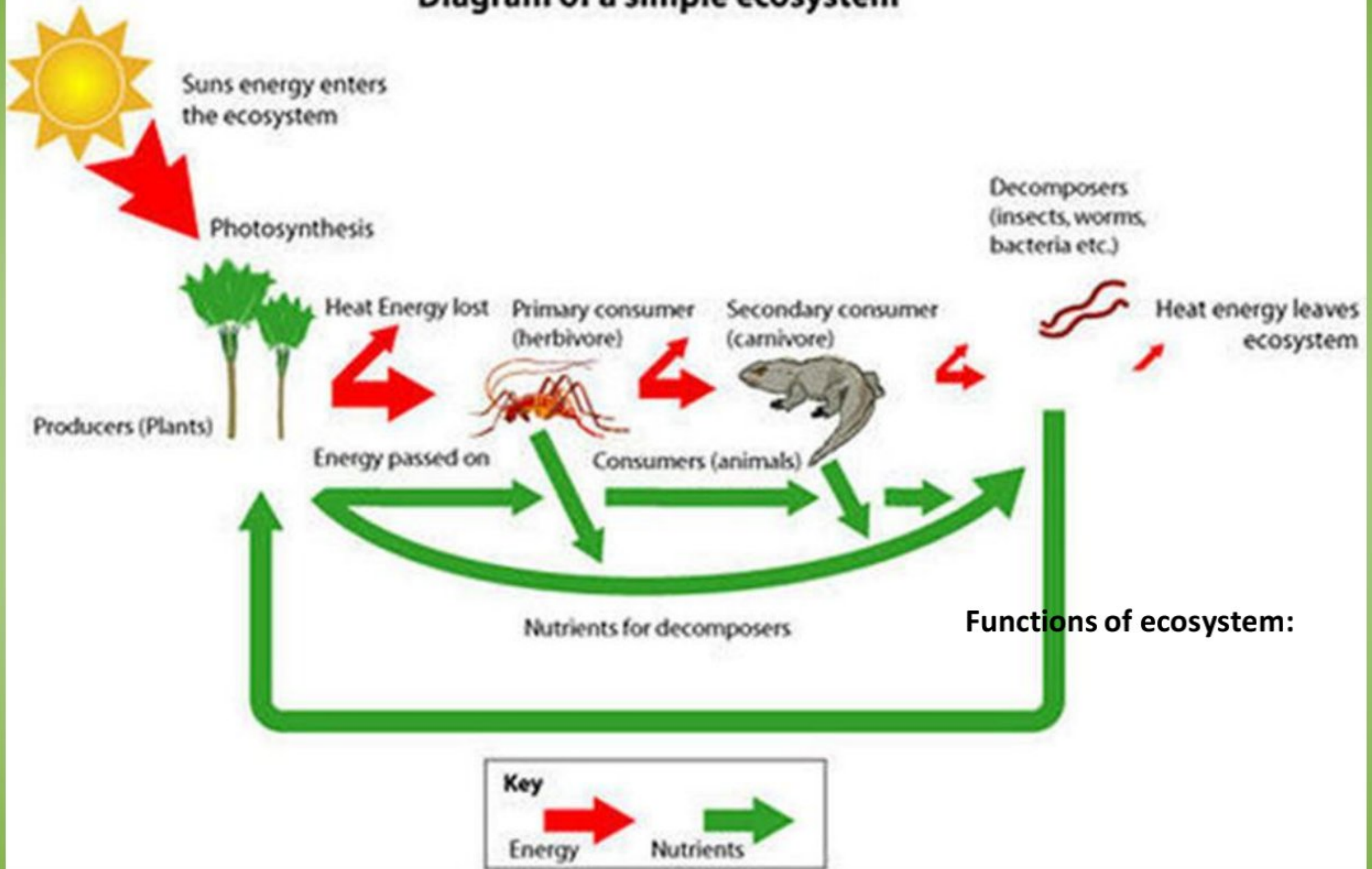


# Components of ecosystem:



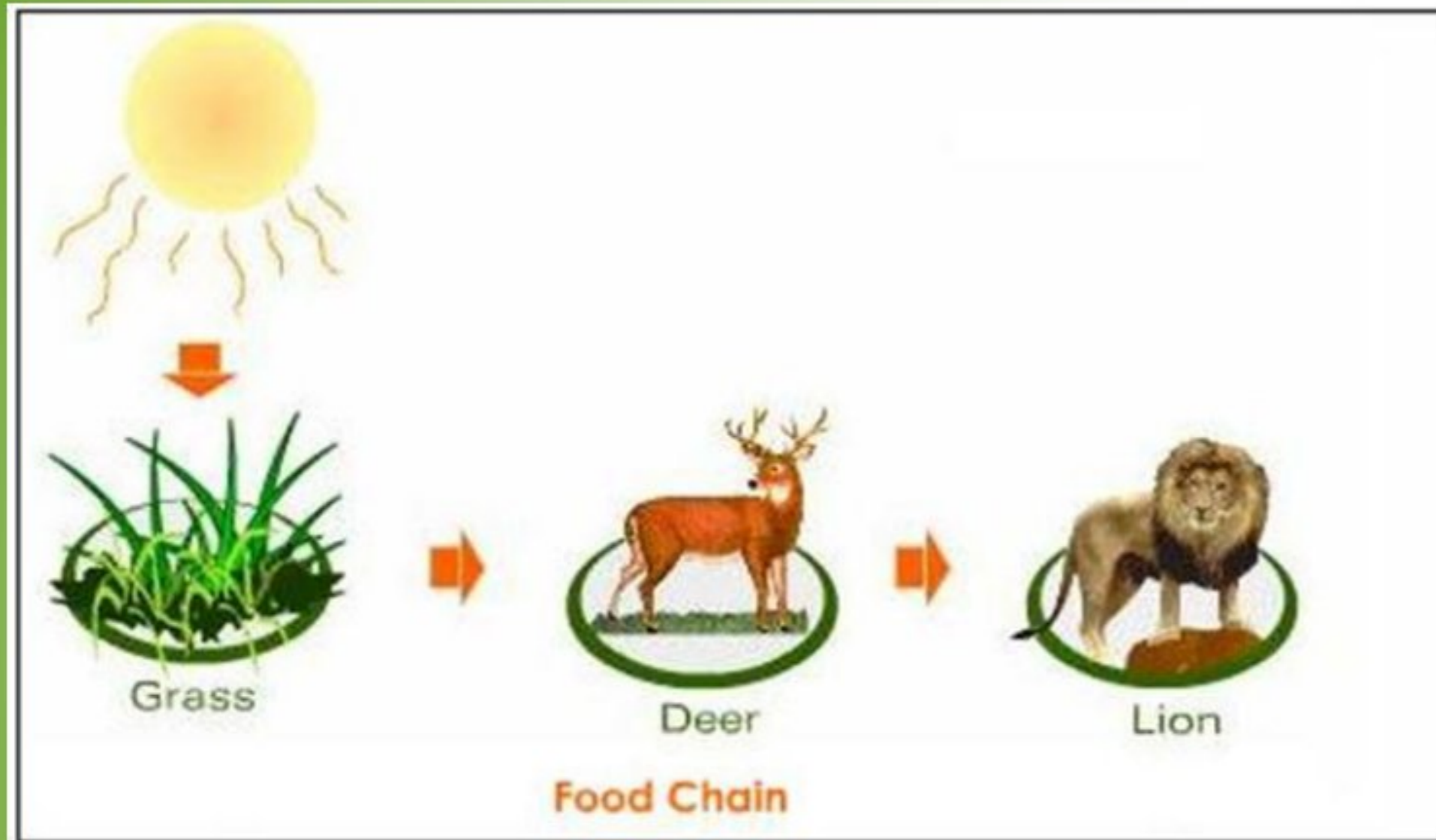


# Diagram of a simple ecosystem

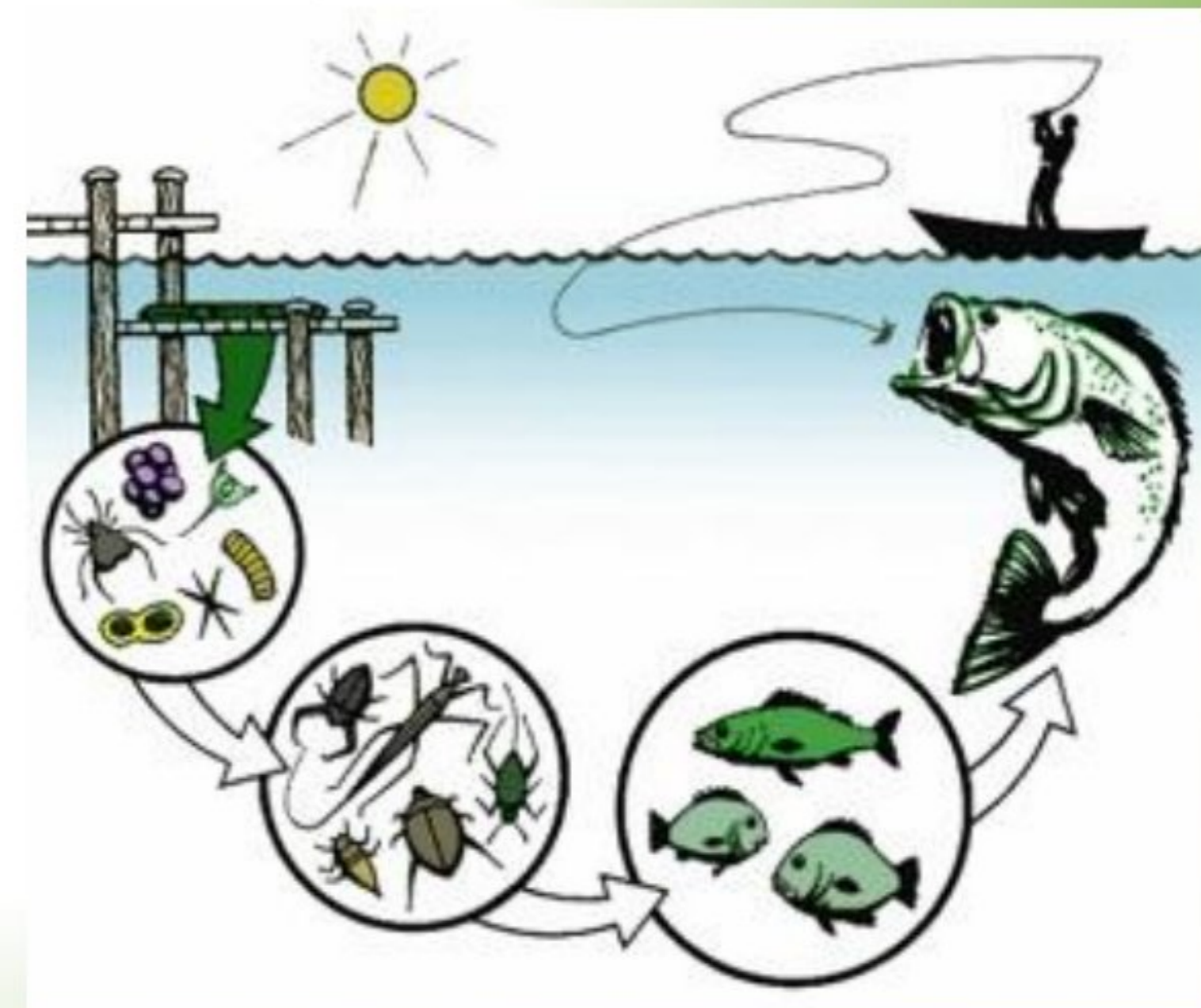




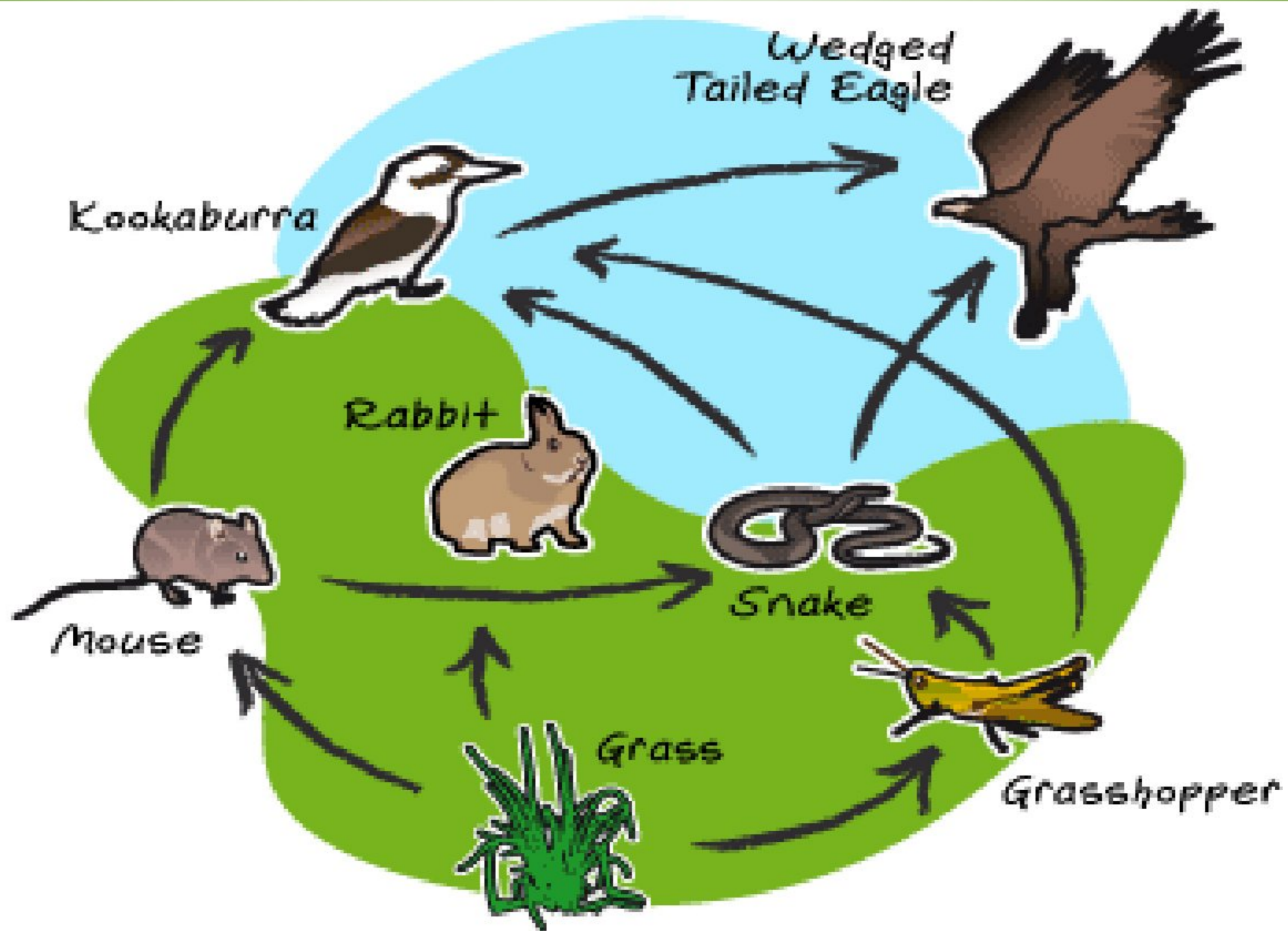
## Terrestrial food chain:



## Aquatic food chain:





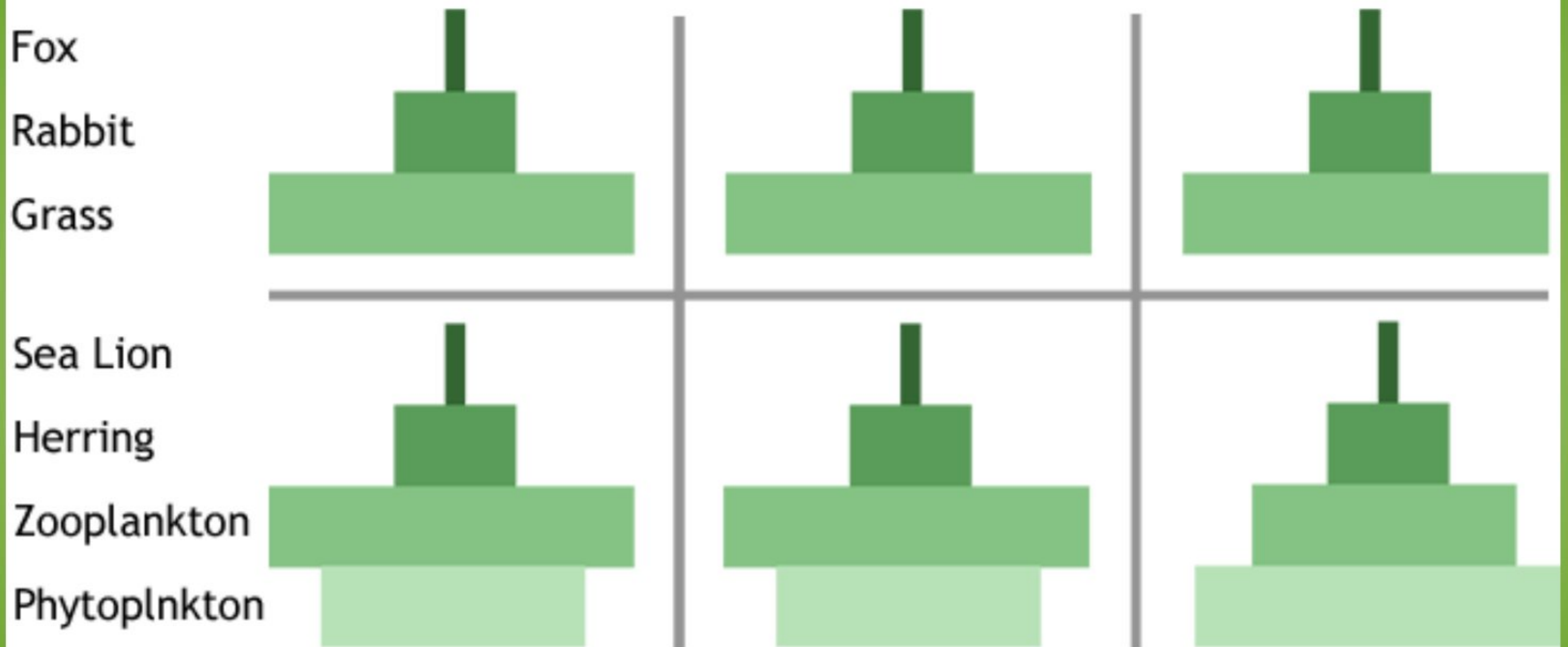




Pyramid of Numbers

Pyramid of Biomass

Pyramid of Energy



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