



EDV 2023

INTRODUCCIÓN A LA ECOLOGÍA



Facultad de

cfcn

Ciencias Forestales y de la
Conservación de la Naturaleza

Universidad de Chile



¿Qué es la Ecología?

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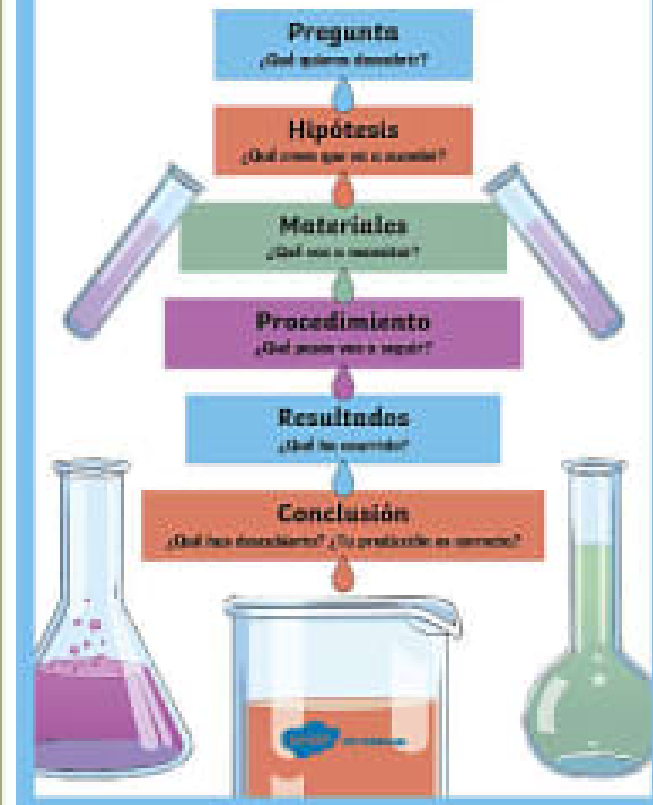
Definición actual:

- **"La Ecología es el estudio científico de la relación entre los organismos y su medio ambiente"**

Eco-logía



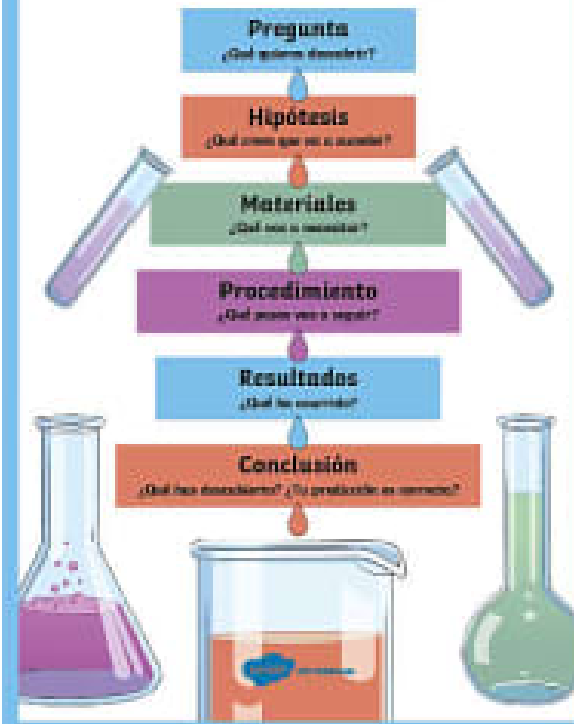
El método científico



El método científico



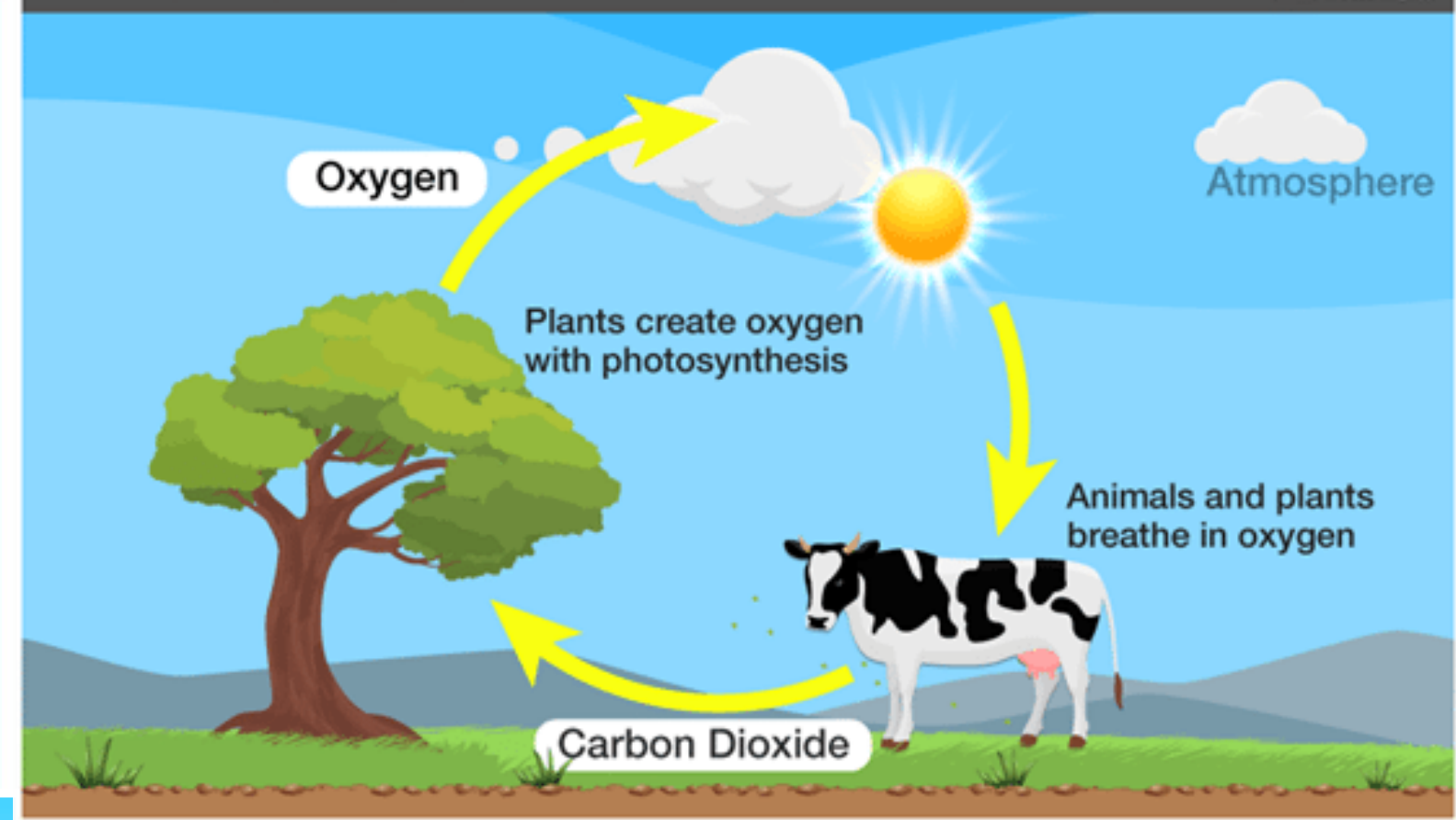
El método científico



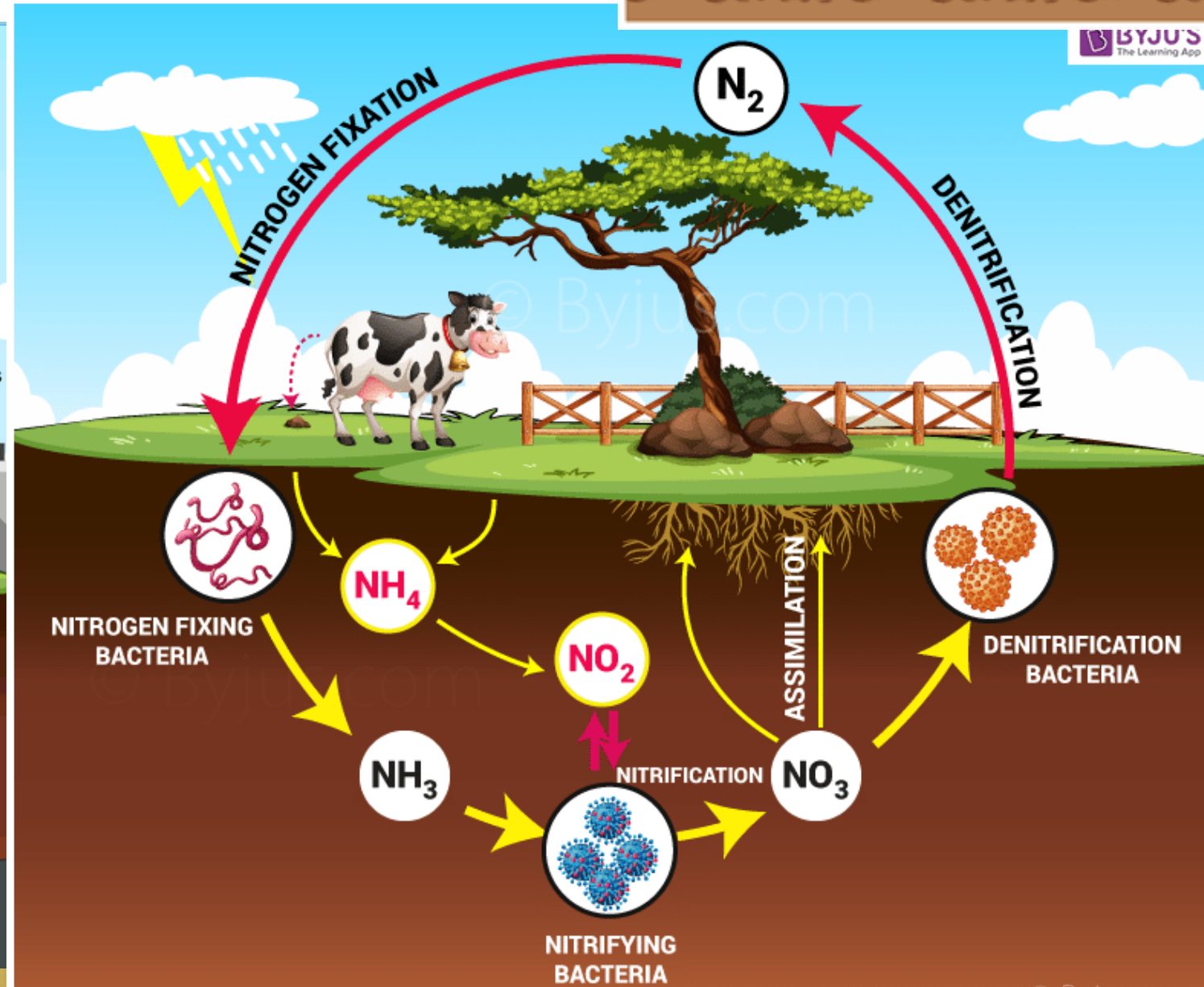
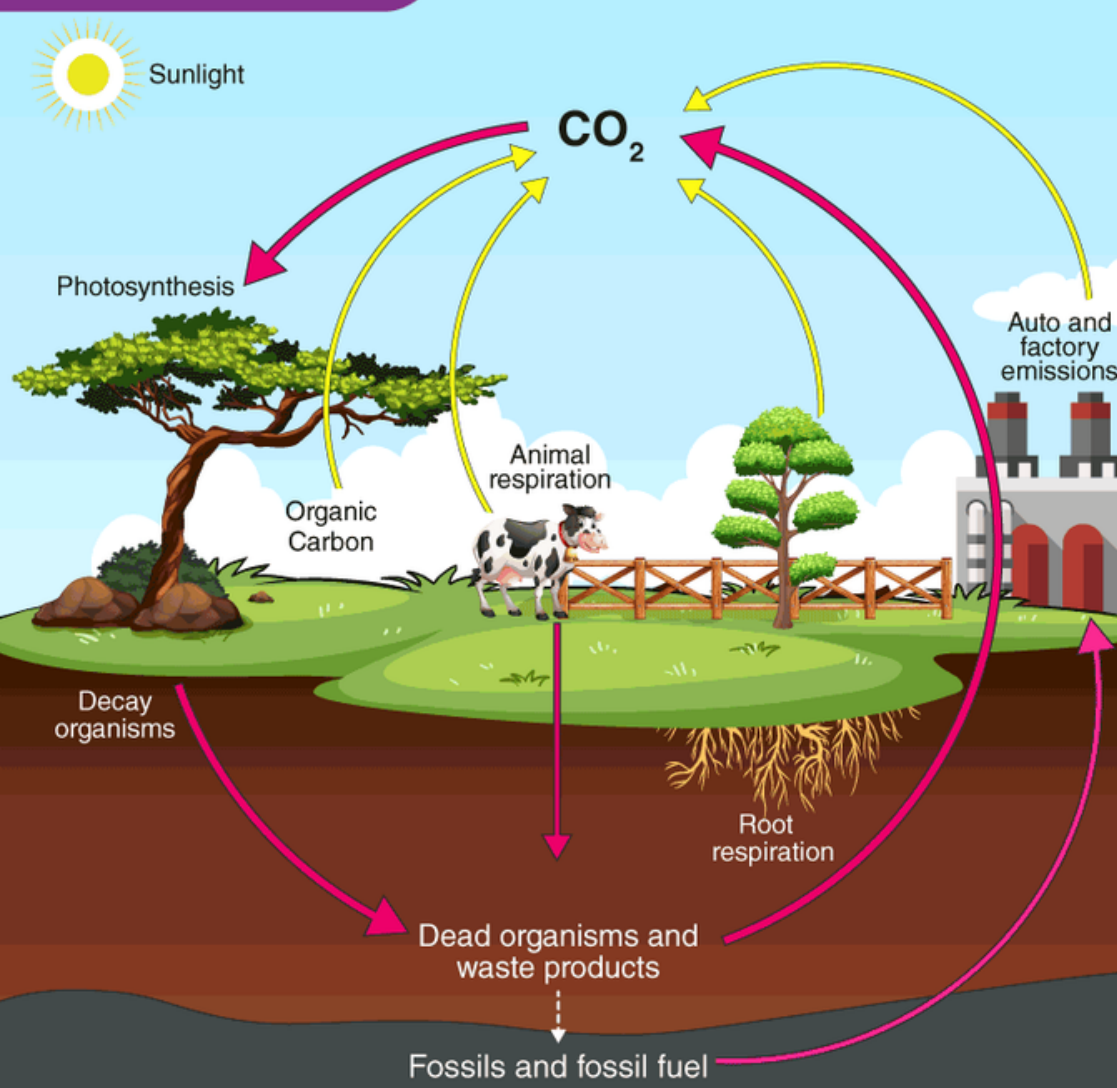
El método científico



THE OXYGEN CYCLE



CARBON CYCLE



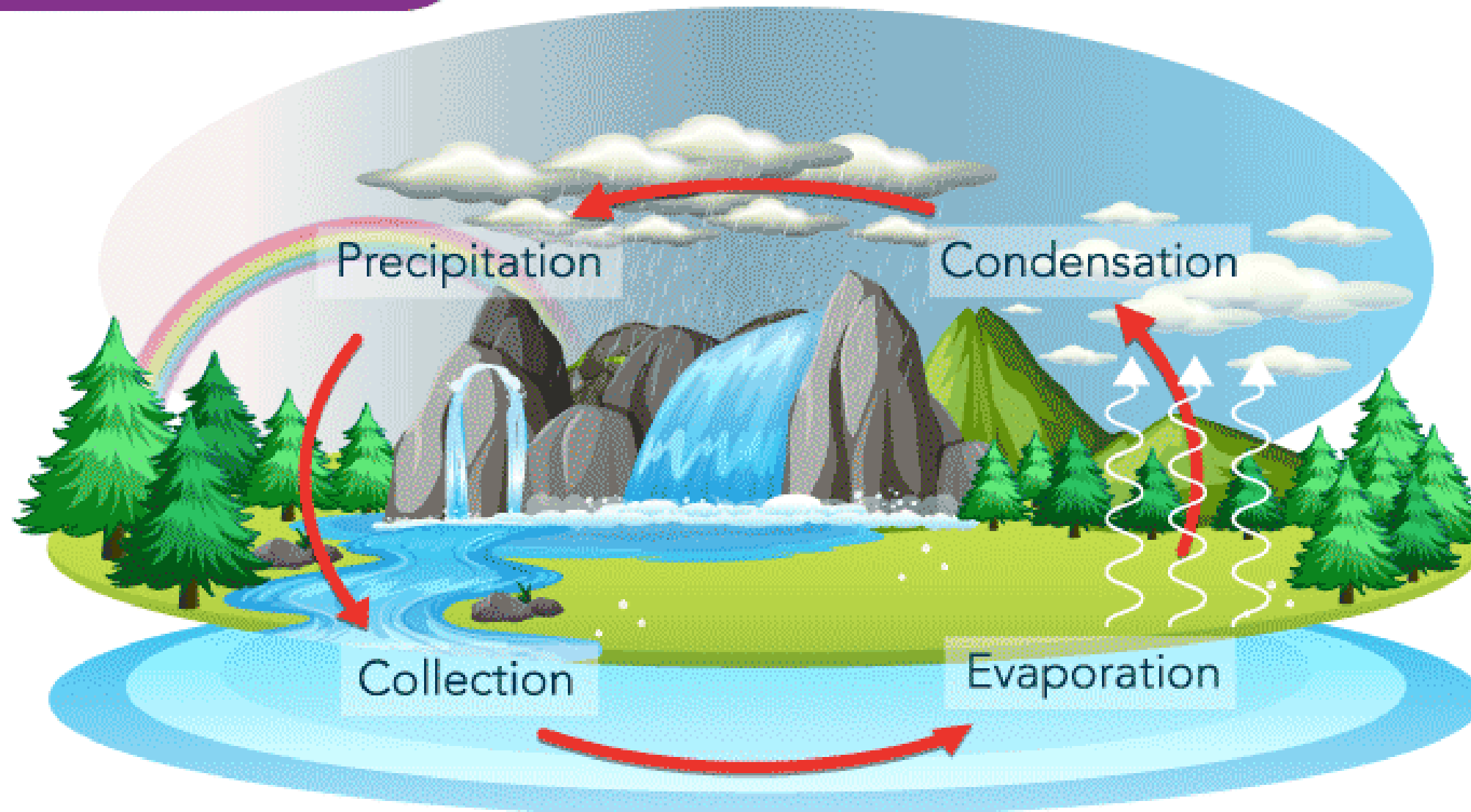
El método científico



El método científico

Pregunta

WATER CYCLE



THE OXYGEN CYCLE

BYJU'S
The Learning App

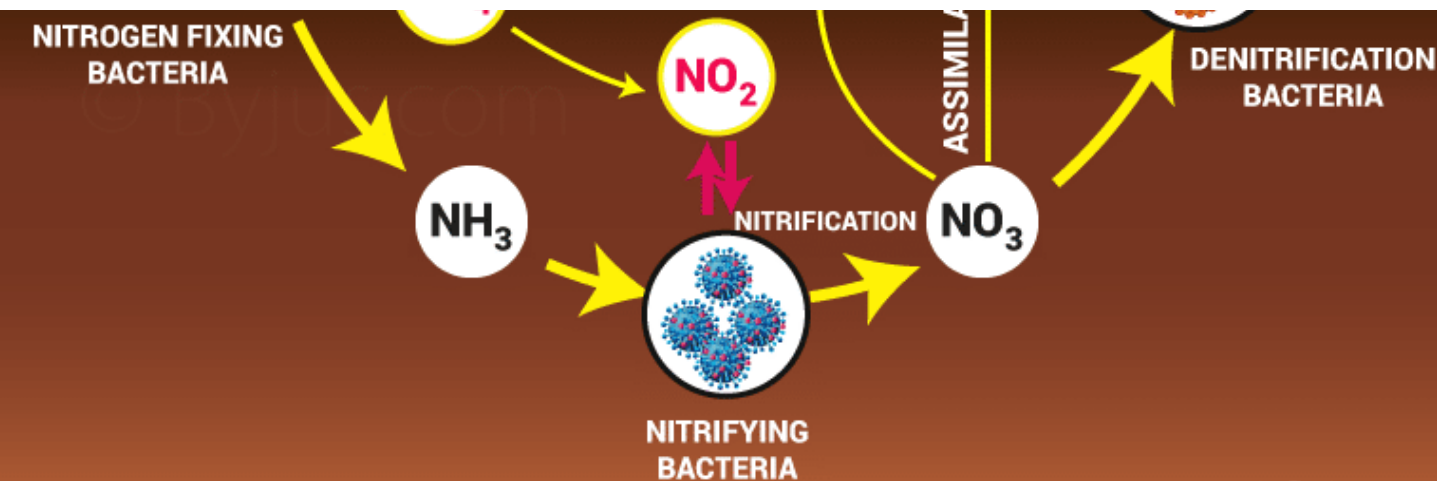
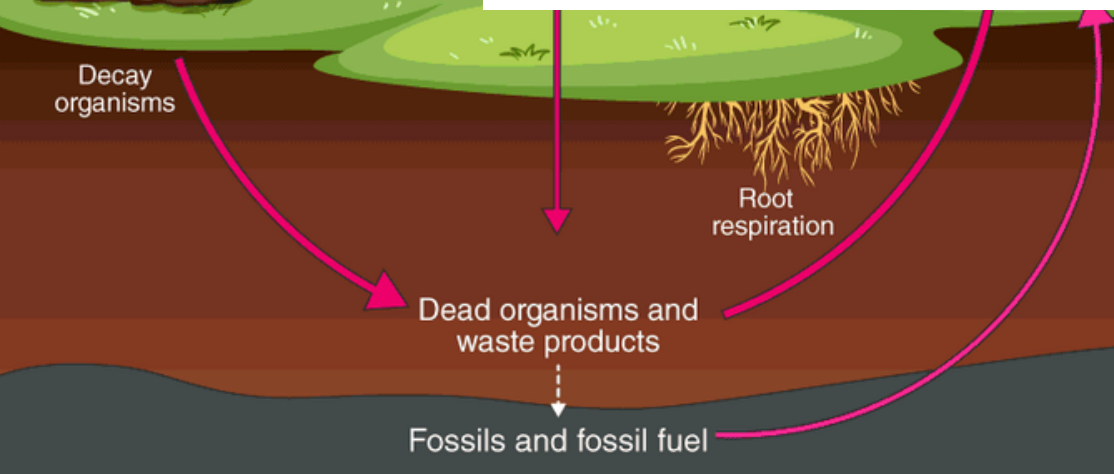
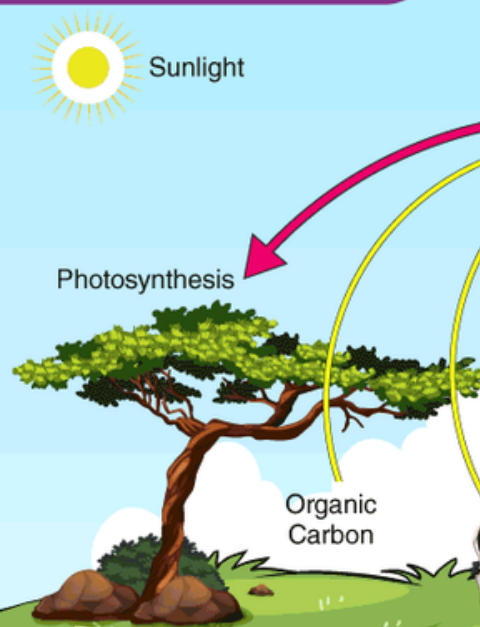
Oxygen

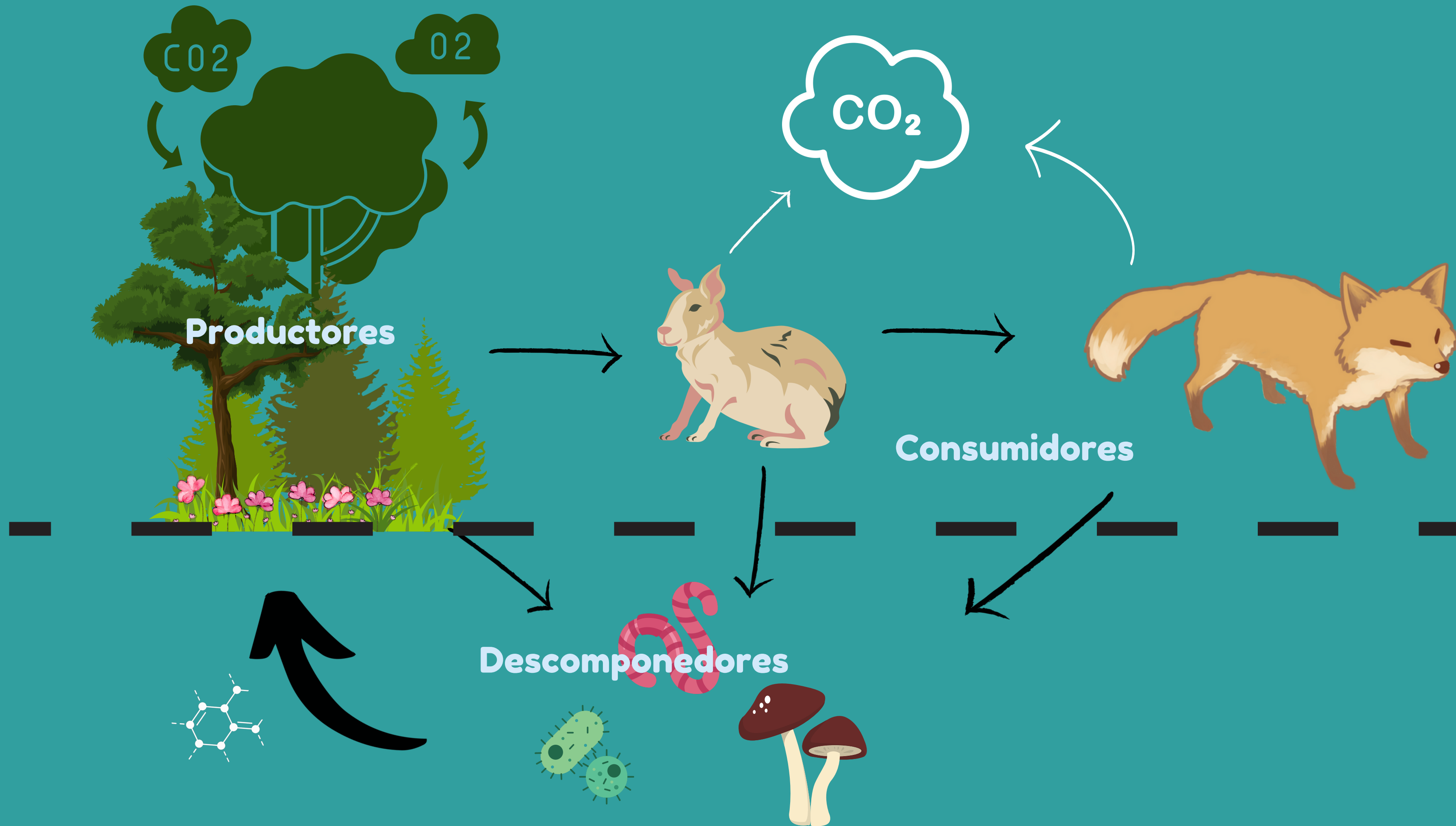
Atmosphere

Animals and plants
breathe in oxygen

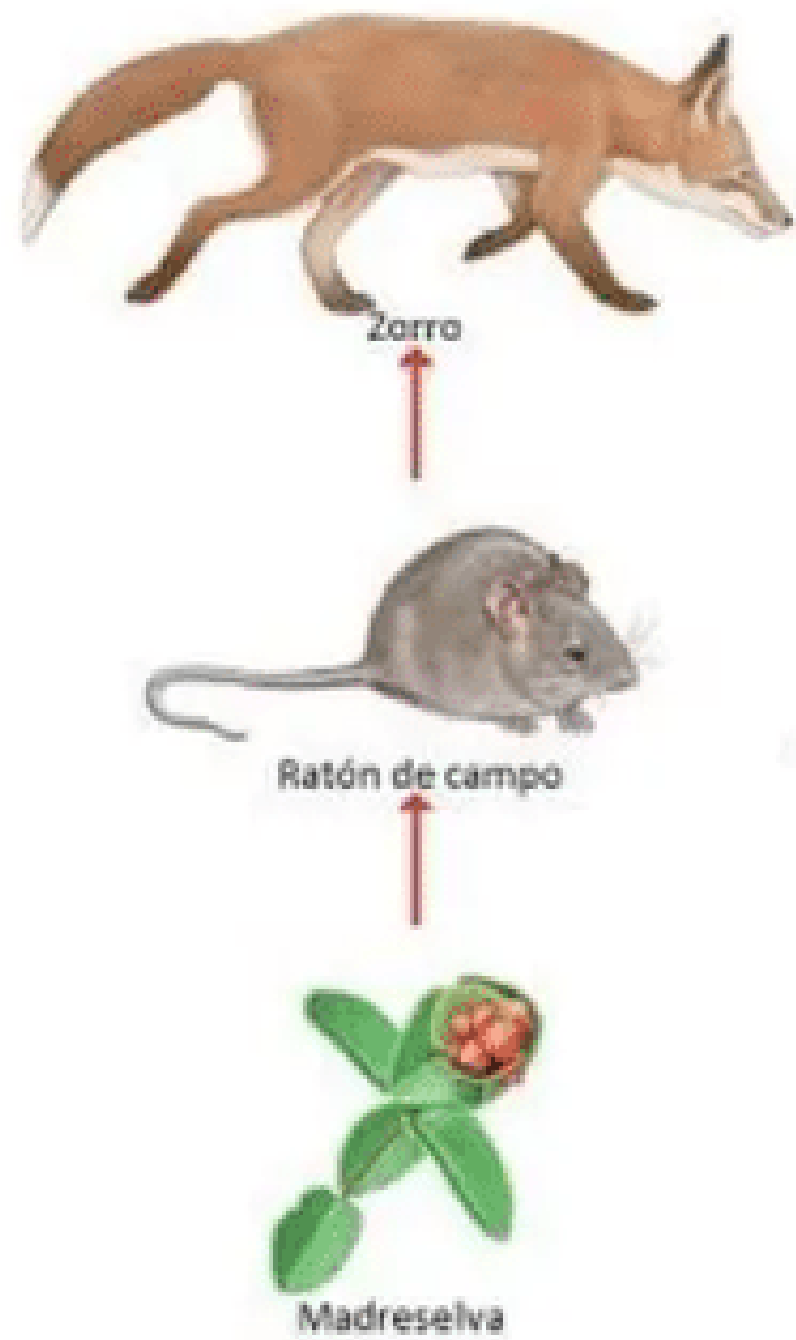
BYJU'S
The Learning App

CARBON CYCLE

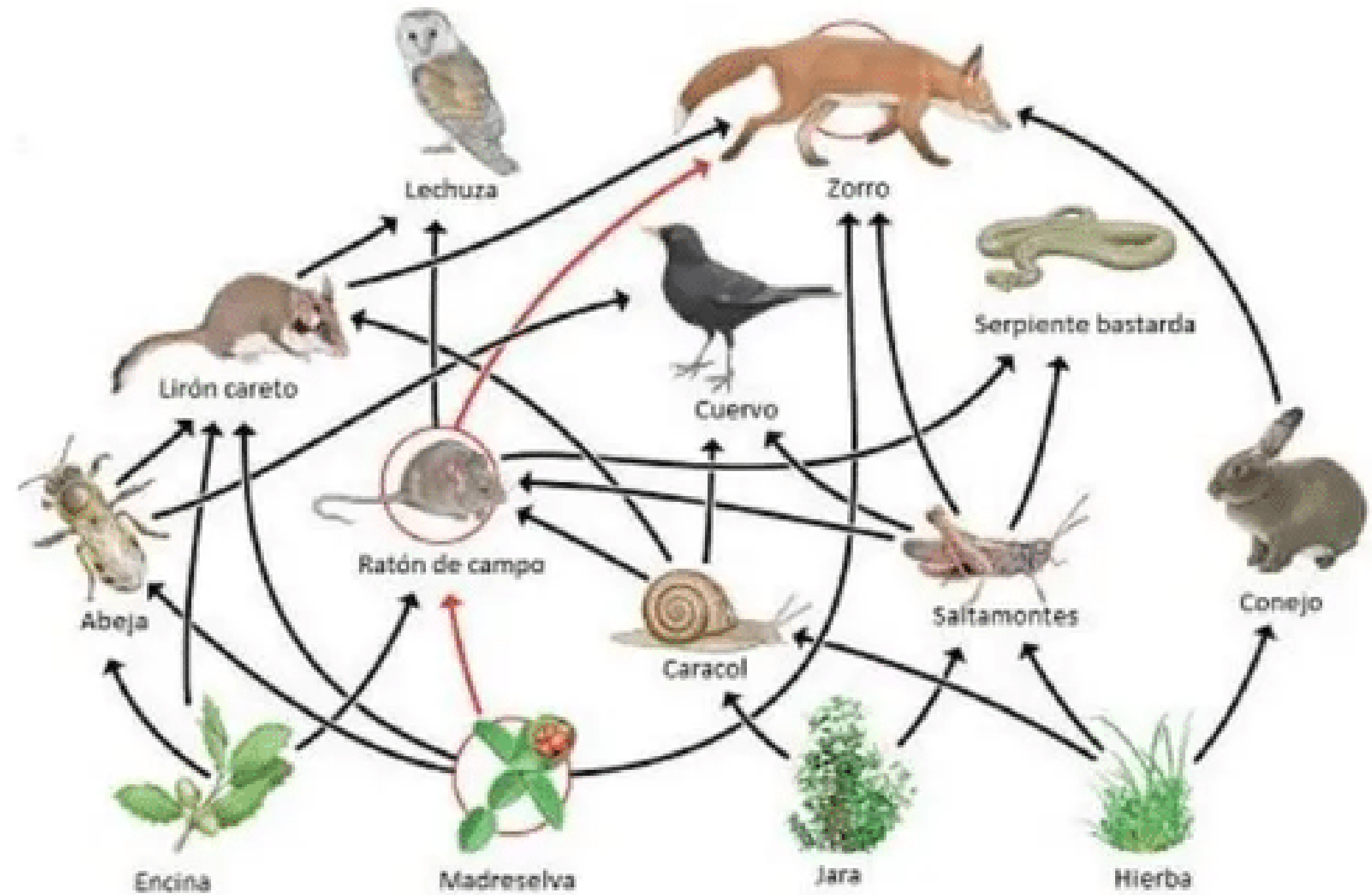




Cadena alimenticia

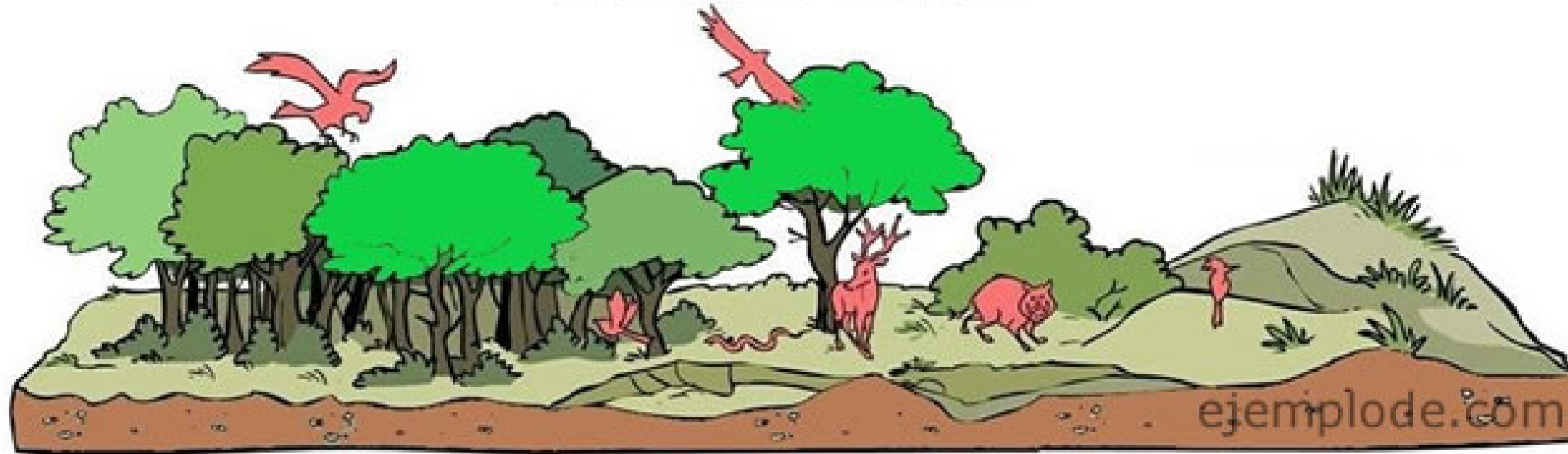


Red trófica

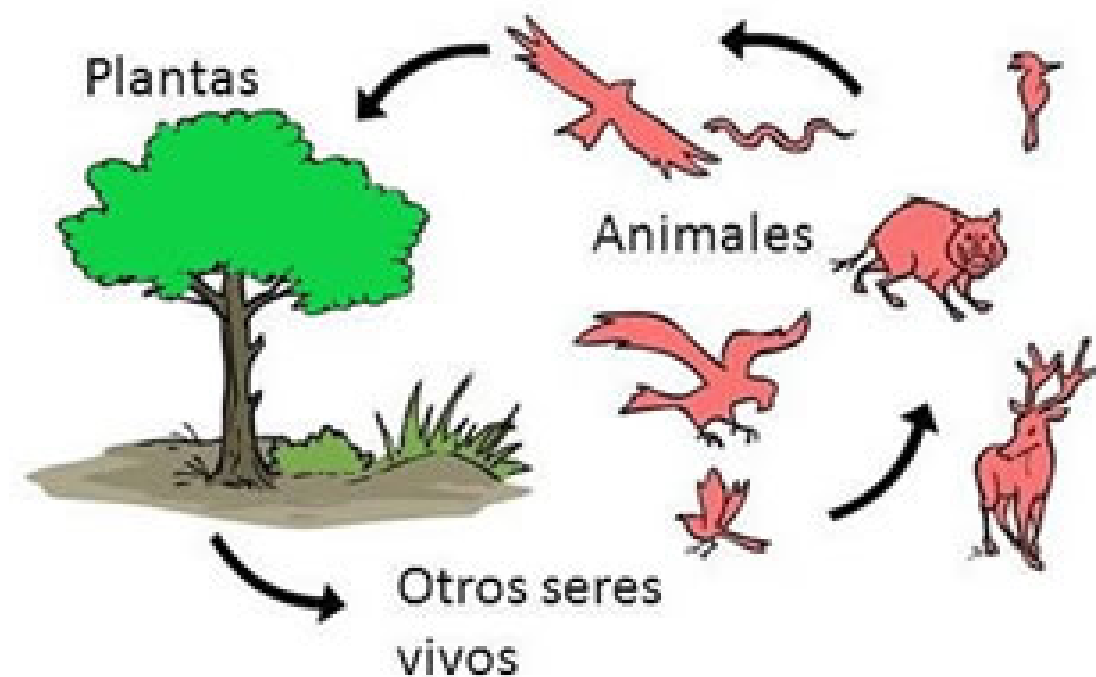


Componentes básicos

Ecosistema



Factores Bióticos

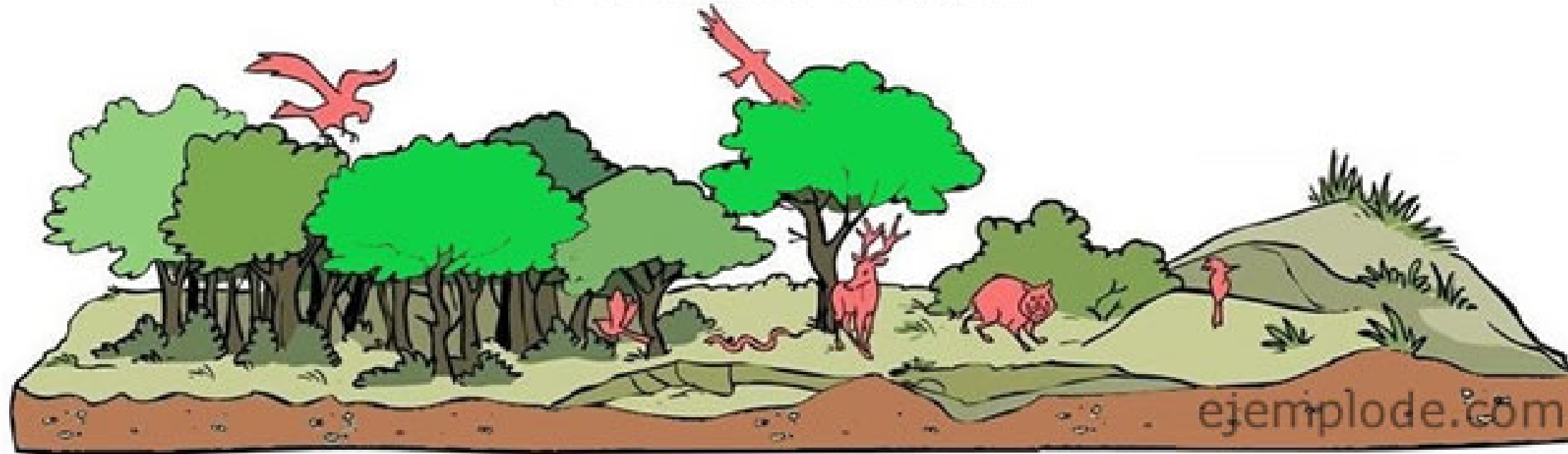


Factores Abióticos

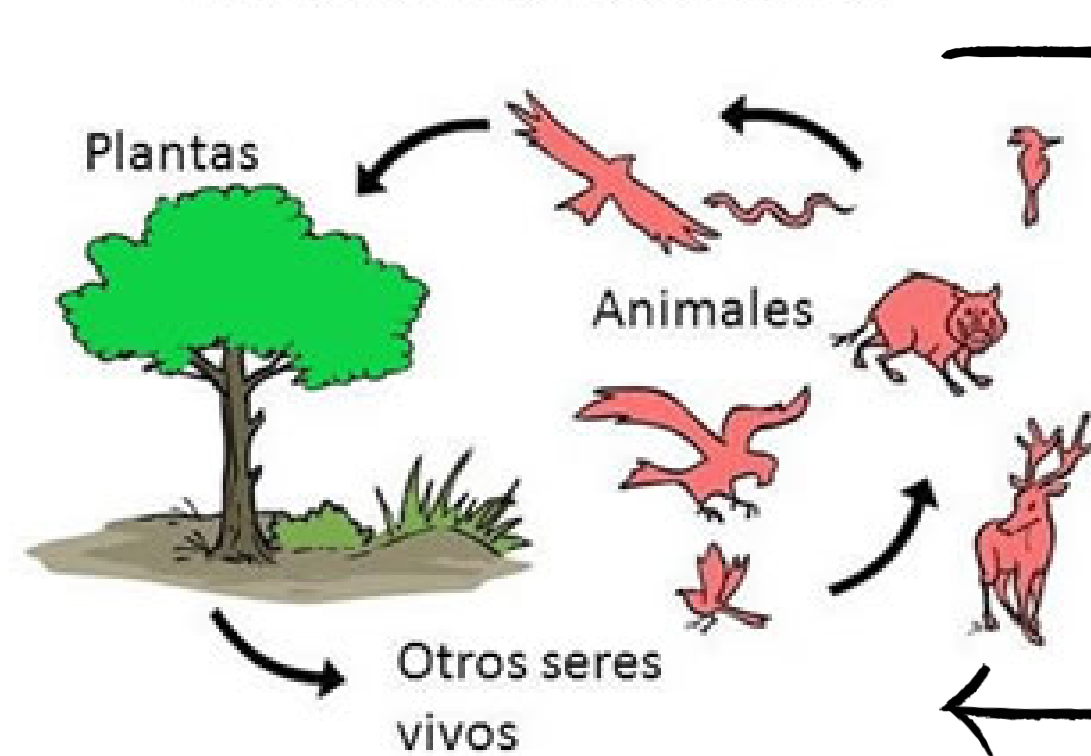


Componentes básicos

Ecosistema



Factores Bióticos



Factores Abióticos



Componentes Bióticos (Biocenosis)



- ## Especies Nativas vs Exóticas

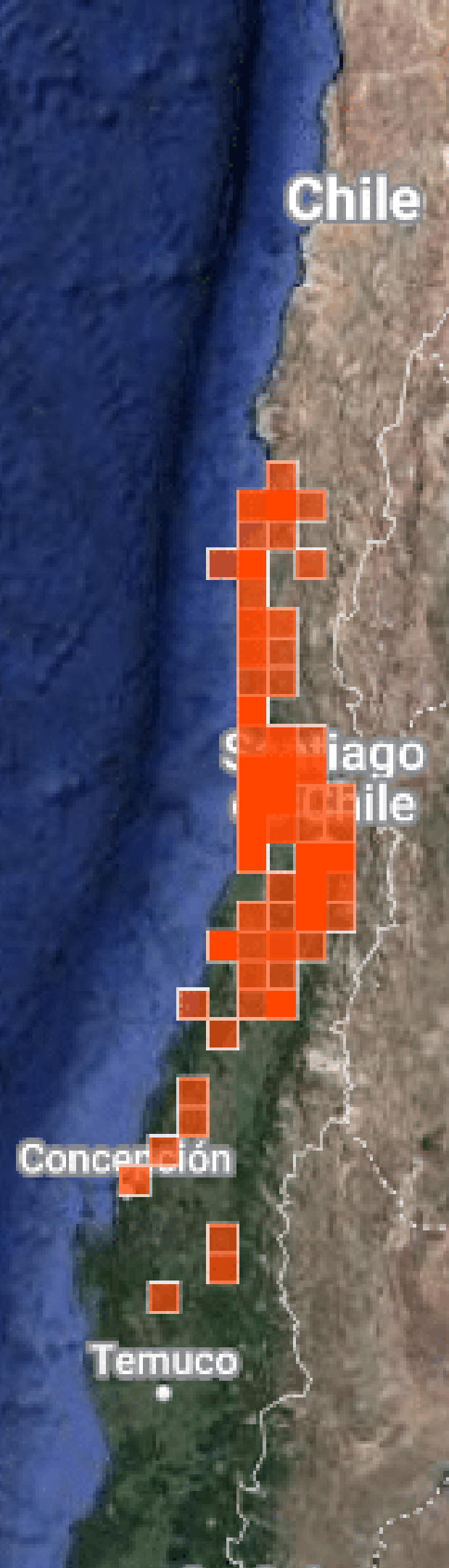


Ejemplo de especie nativa

Flor de la plumilla (*Trichopetalum plumosum*)

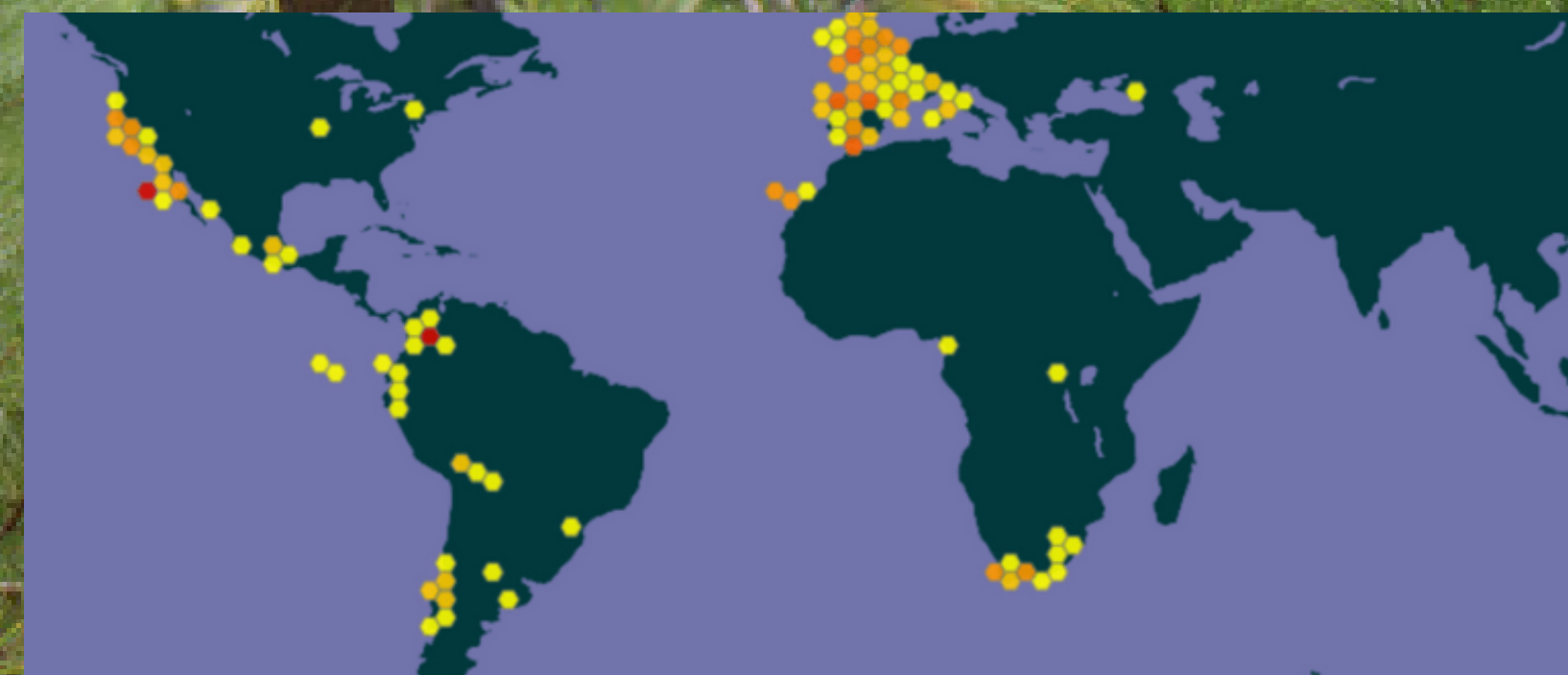
Distribución natural

Eduardo Muñoz
NATURE PHOTOGRAPHY





Ejemplo de especie exótica
Pino (*Pinus radiata*)



Componentes Abióticos (Biotopo)

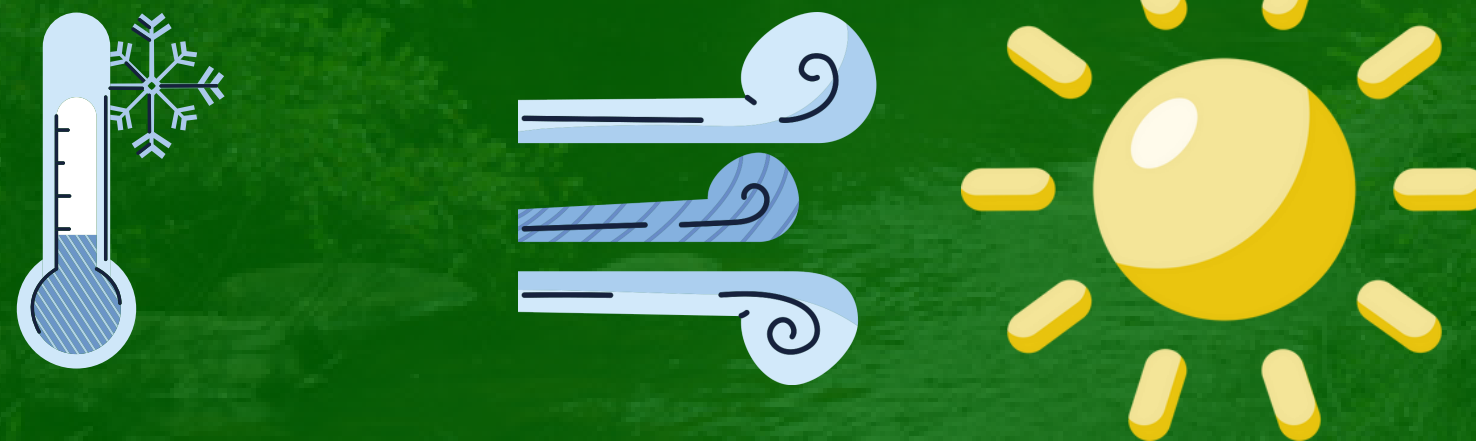
Geomorfología



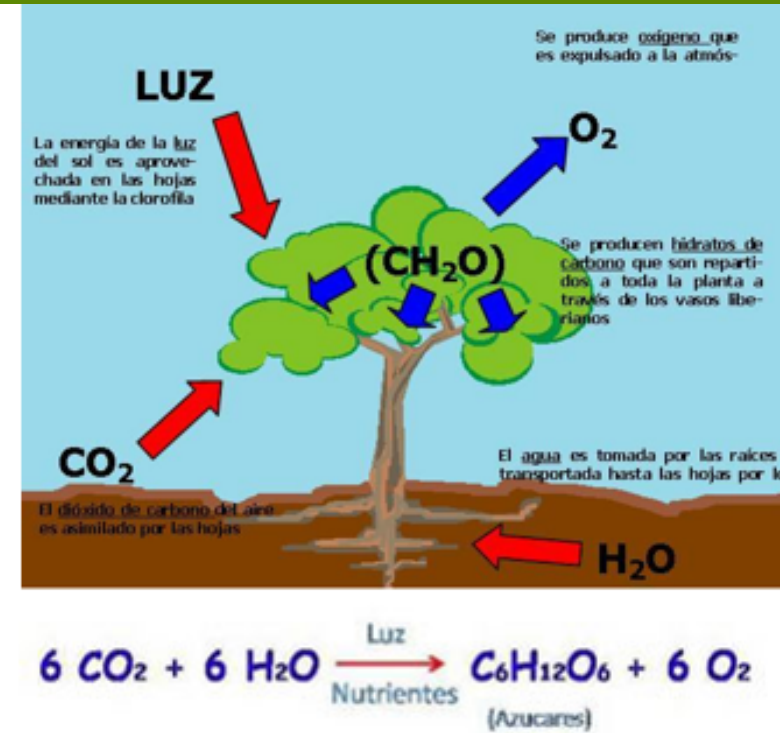
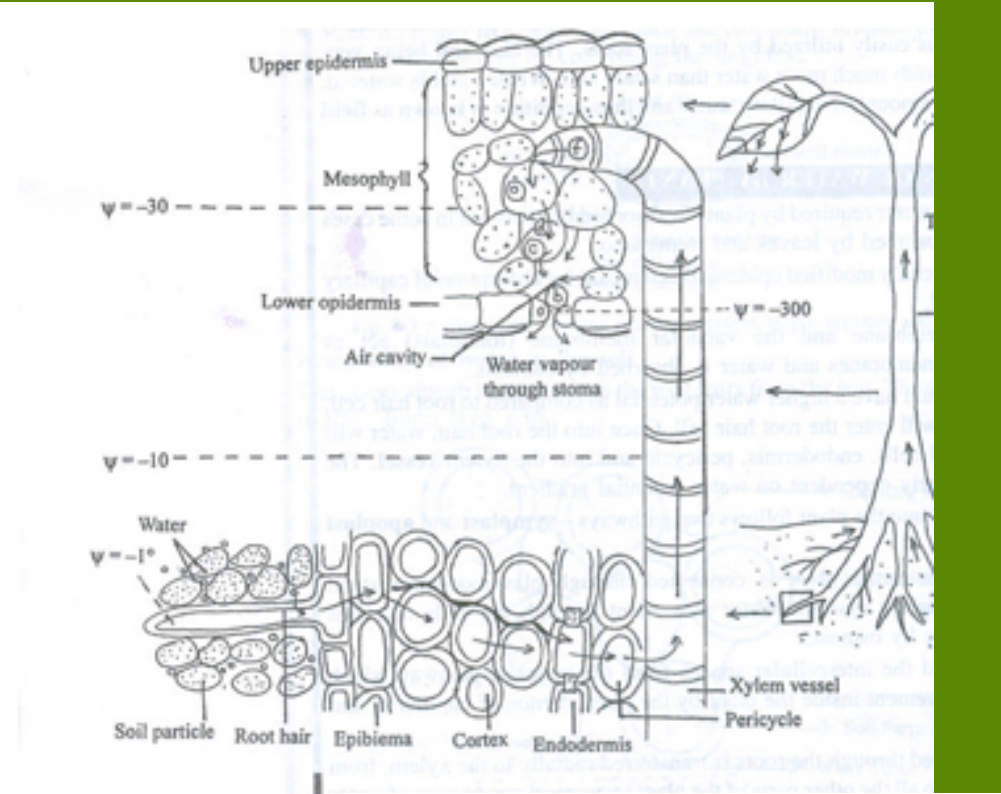
Suelo



Clima



Ejemplos de incidencia de los factores abióticos--> factores bióticos



Viento achaparra árboles



Ejemplos de incidencia de los factores bióticos--> factores bióticos



Mutualismos/Comensalismos/Simbiosis



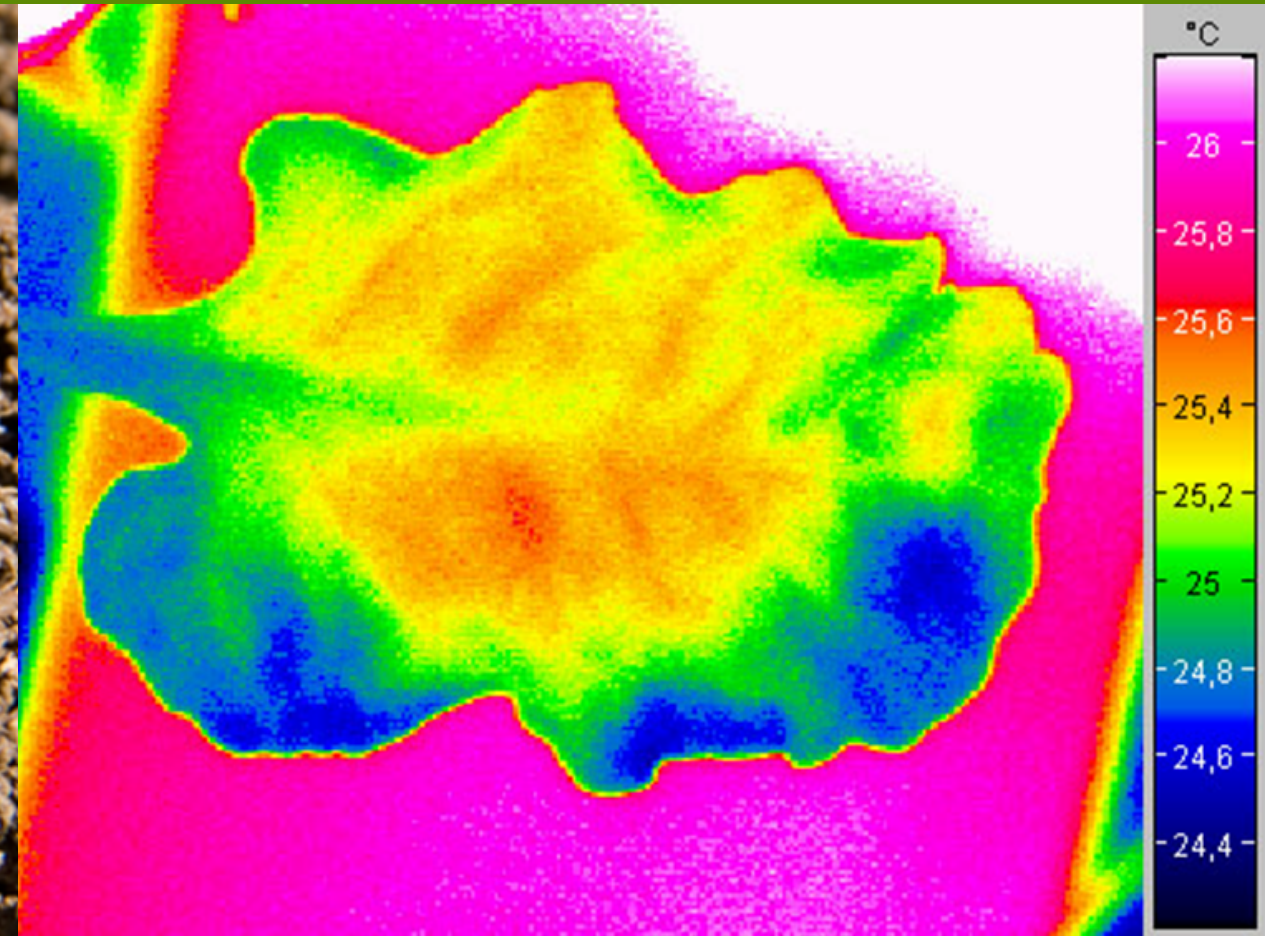
Ejemplos de incidencia de los factores bióticos--> factores abióticos



Abono

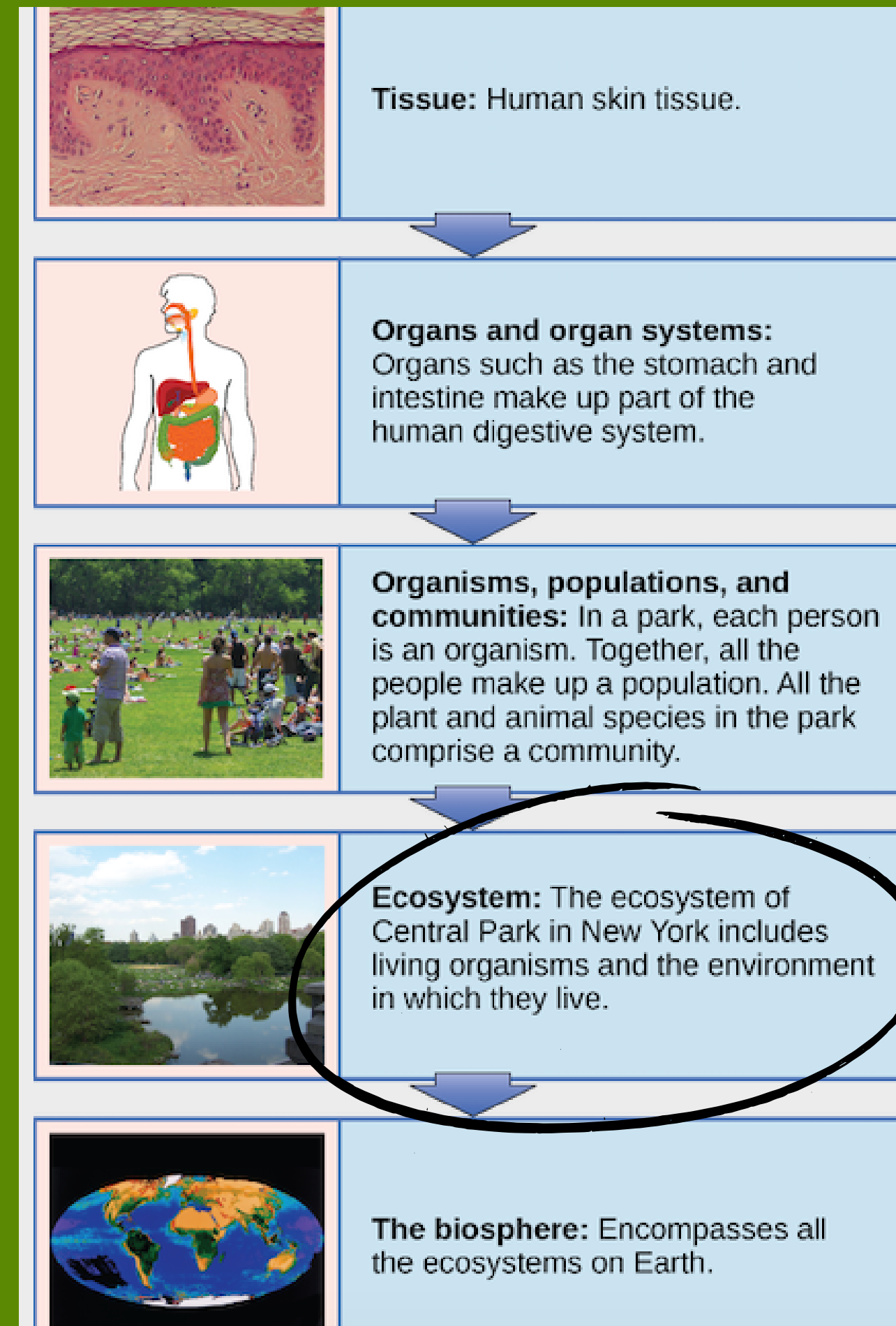
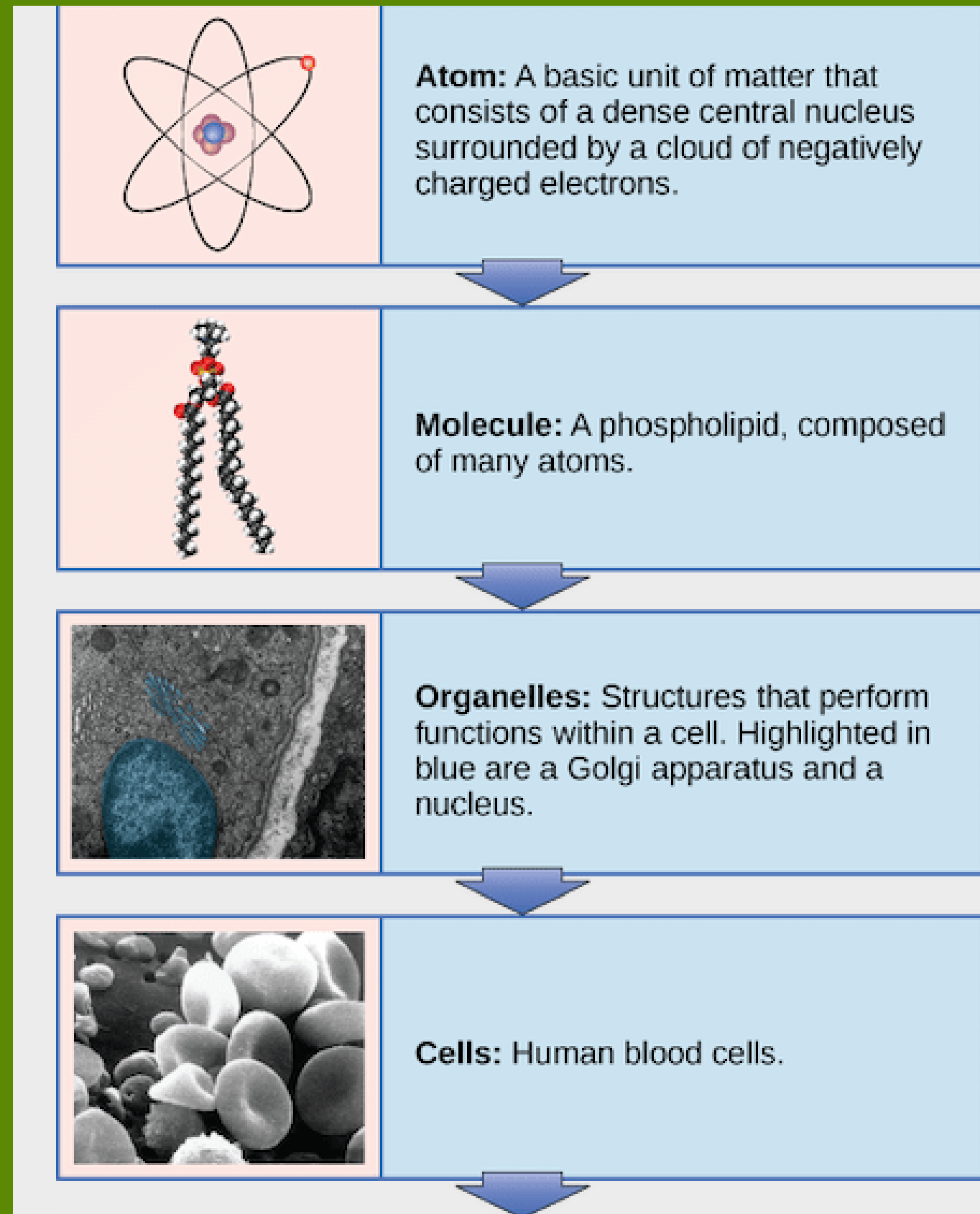


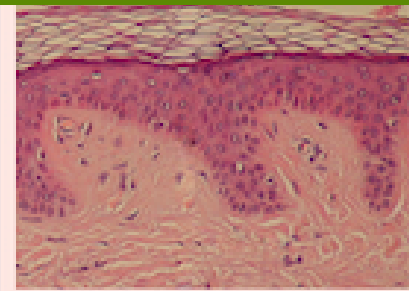
Bioturbación



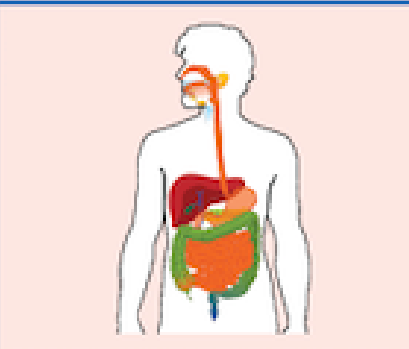
Regulación térmica

Estructura jerárquica





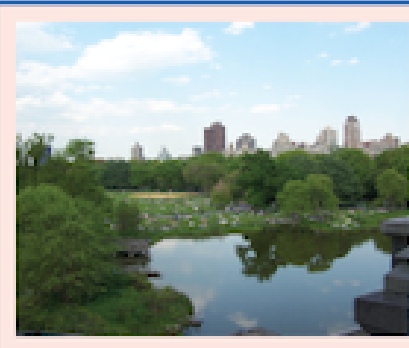
Tissue: Human skin tissue.



Organs and organ systems: Organs such as the stomach and intestine make up part of the human digestive system.



Organisms, populations, and communities: In a park, each person is an organism. Together, all the people make up a population. All the plant and animal species in the park comprise a community.



Ecosystem: The ecosystem of Central Park in New York includes living organisms and the environment in which they live.

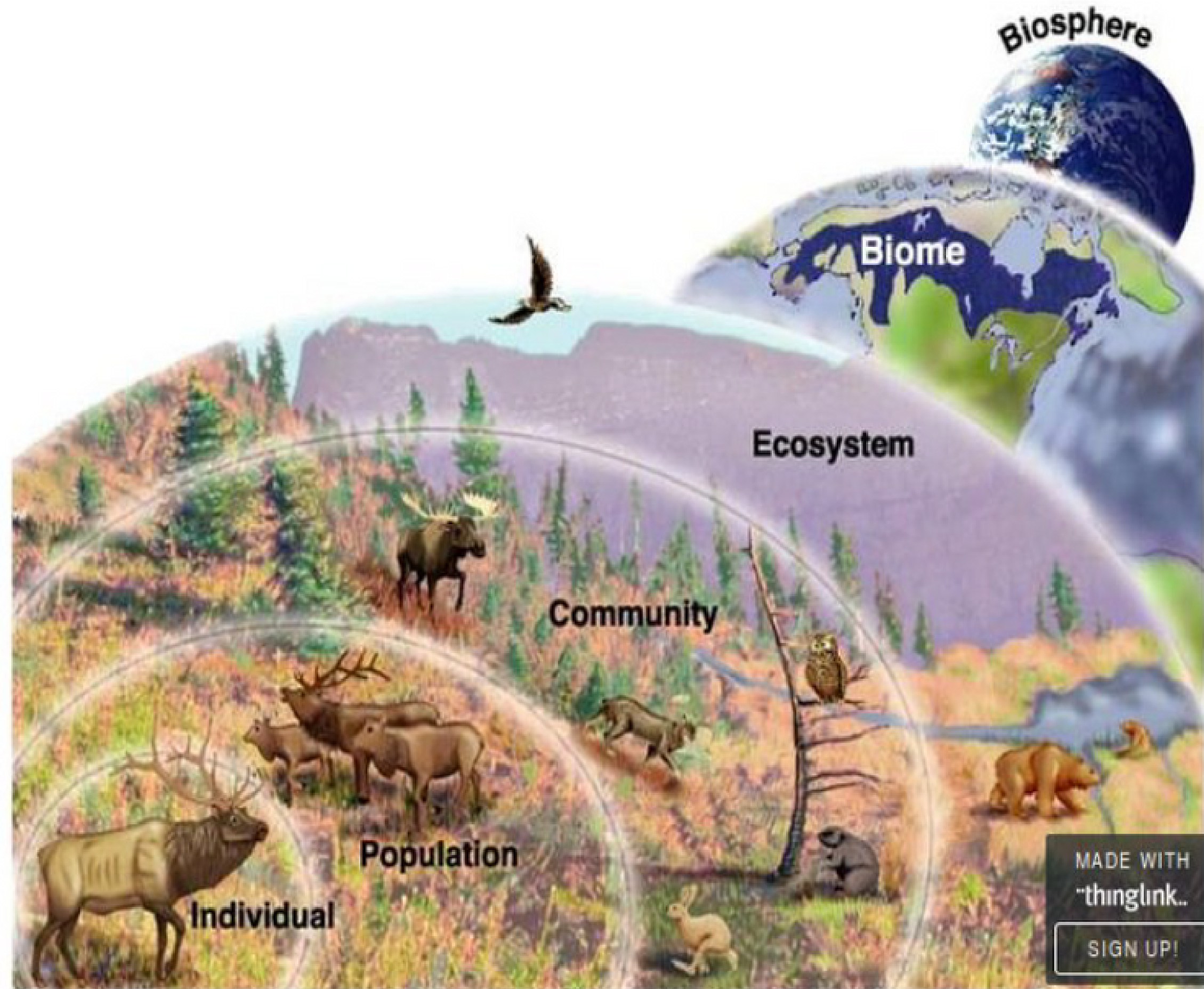


The biosphere: Encompasses all the ecosystems on Earth.

La Ecología estudia la estructura y funcionamiento de los ecosistemas



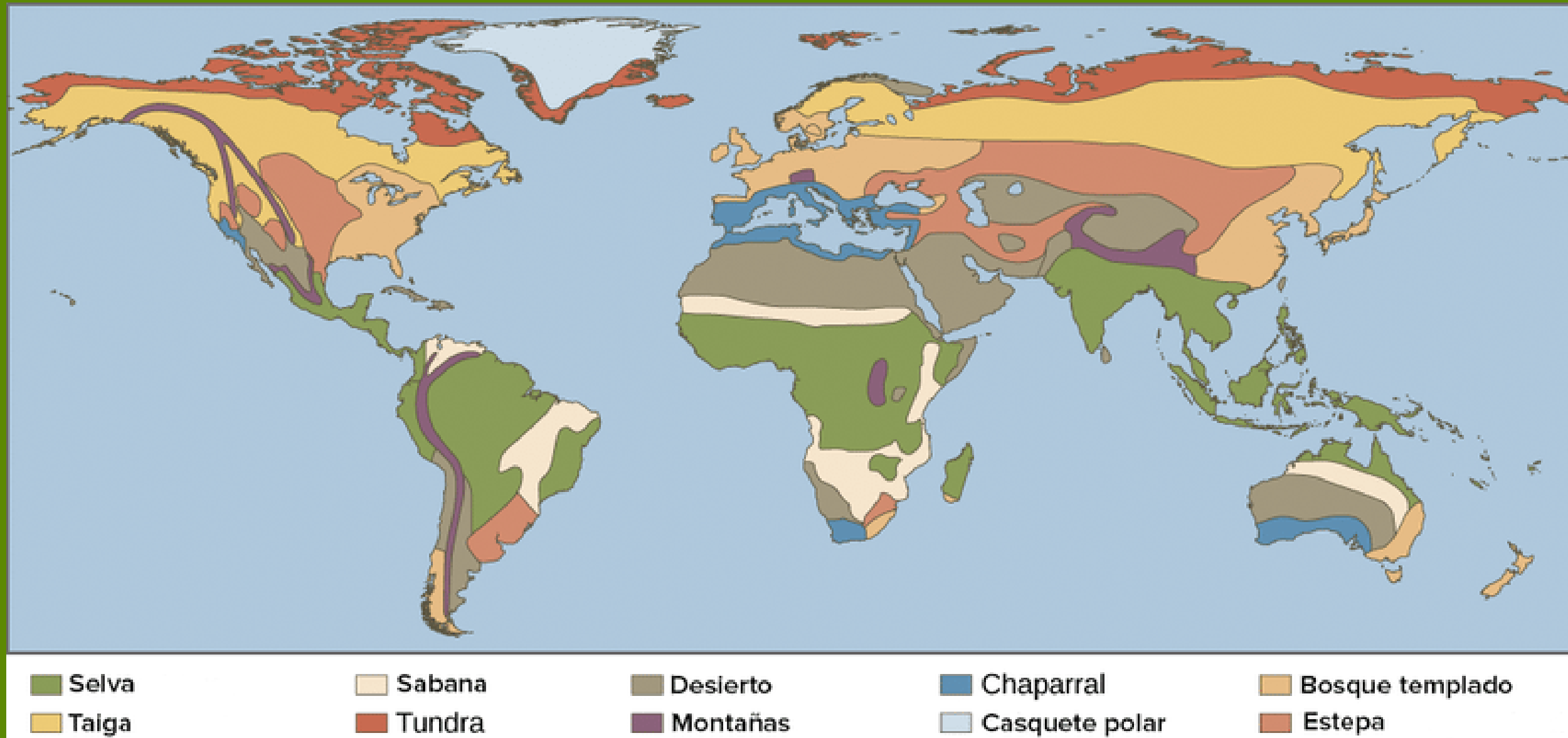
Concepto de Bioma:
Comunidades
bióticas + Medio
ambiente físico



MADE WITH
"thinglink..

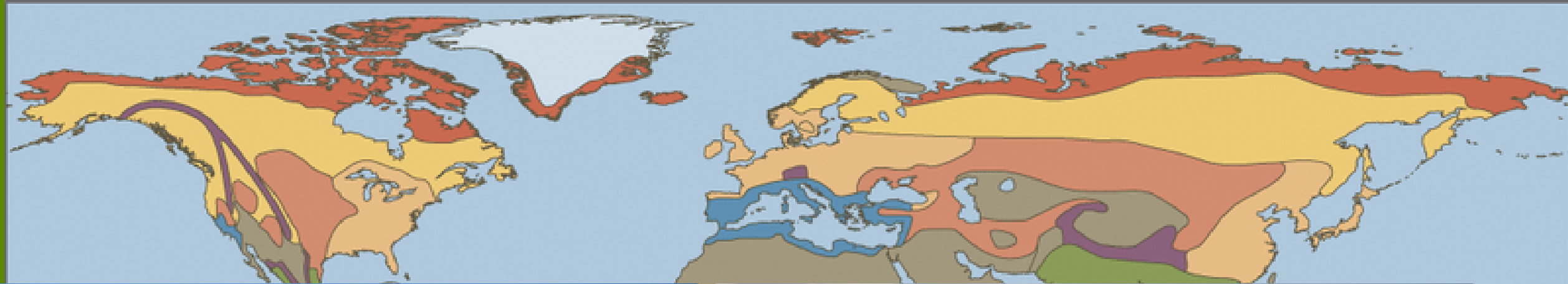
SIGN UP!

Biomas del Mundo



Extraído de Khan Academy

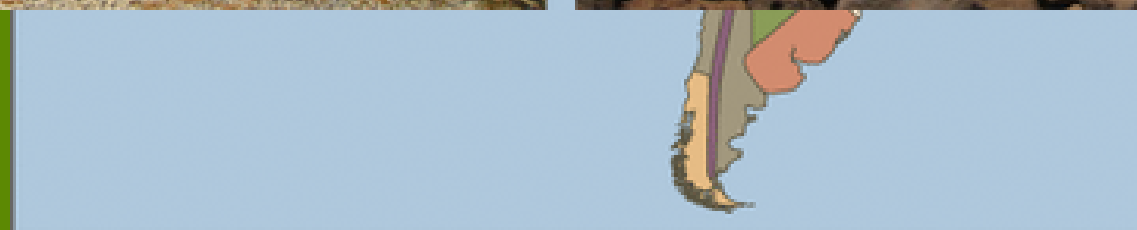
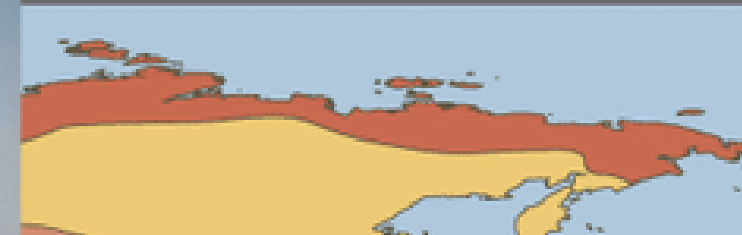
Biomas del Mundo



si
on
o

do

Biomas del Mundo



Selva

Sabana

Desi

Taiga

Tundra

Mon

Extraído



The background of the slide is a close-up photograph of a field of flowers. In the foreground, several purple cosmos-like flowers with five petals and yellow centers are in focus. Behind them, there are many more flowers, including some that are yellow and others that are light blue or white, all slightly out of focus. The overall scene is a dense, colorful garden.

Niveles de diversidad

- **Genética**

- **Especies**

- **Ecosistemas**

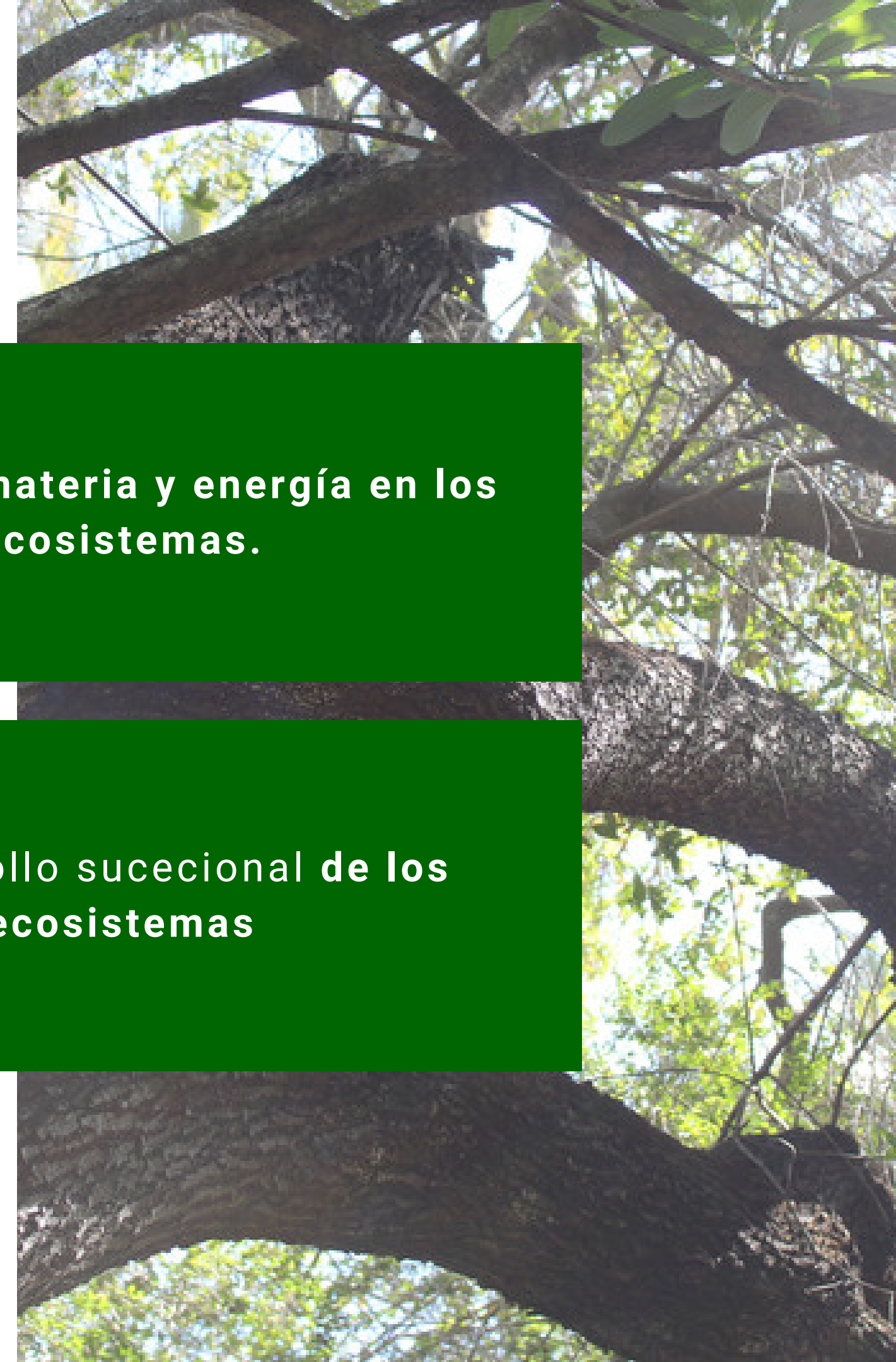
La ecología como ciencia busca explicar y comprender:

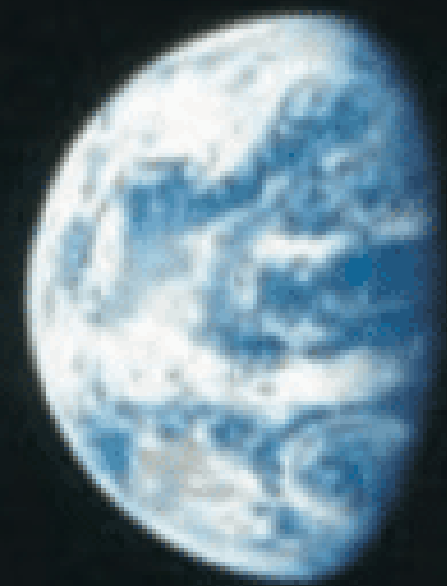
Los procesos de vida y las adaptaciones de los organismos vivos.

El flujo de materia y energía en los ecosistemas.

La distribución y abundancia de los organismos.

El desarrollo sucesional de los ecosistemas





Fotografía del amanecer de la tierra tomada por el astronauta del Apolo 8 William A. Anders el 24 de diciembre de 1968 (Smith & Smith, 2008).



**GRACIAS X SU
ATENCIÓN**