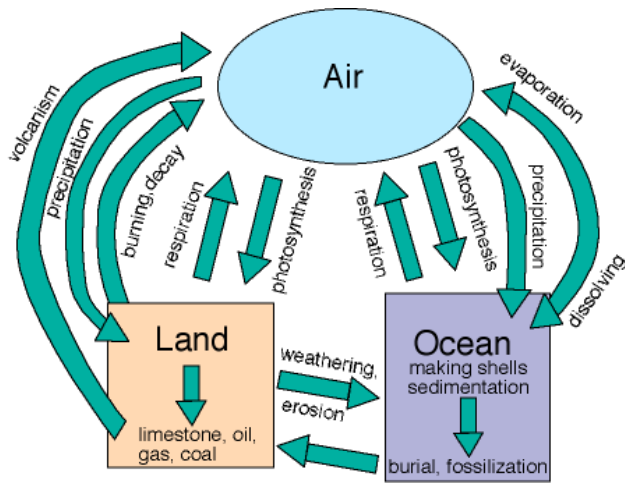


# CARBON CYCLE



The carbon cycle on Earth

What processes remove carbon dioxide from the atmosphere?

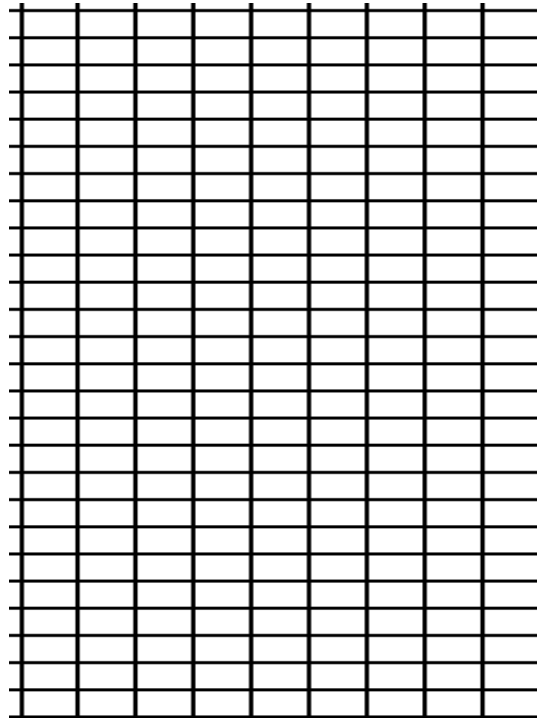
What processes put carbon dioxide into the atmosphere?

What is the greenhouse effect?

# POPULATION GROWTH

Graph the follow data—two lines.

TIME	POPULATION A	POPULATION B
1 year	2	2
2 years	4	4
3 years	8	8
4 years	16	16
5 years	32	32
6 years	64	64
7 years	128	70
8 years	256	70
9 years	512	70



Which line shows logistic growth?

Which line shows exponential growth?

Which line shows a population reaching carrying capacity?

# INFORMATION ORGANIZER NUMBER THREE

## A Little Vocabulary

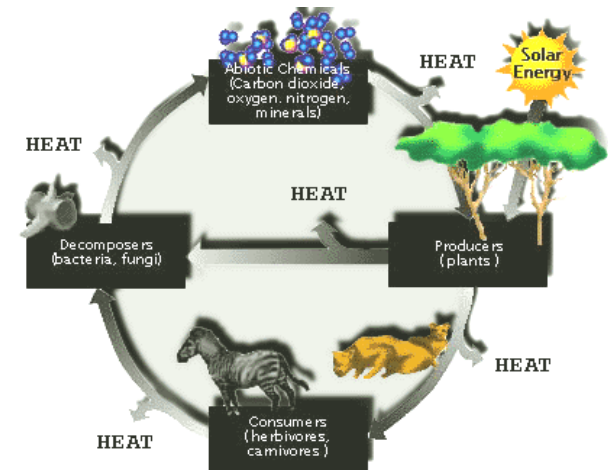
Community and ecosystem:

Producer and autotroph:

Consumer and heterotroph:

Decomposer:

## Matter and Energy



How do matter and energy move differently through the biosphere?

## FACTORS THAT AFFECT COMMUNITIES

Abiotic

Biotic

Carrying Capacity and  
Limiting Factors (food, competition, climate)

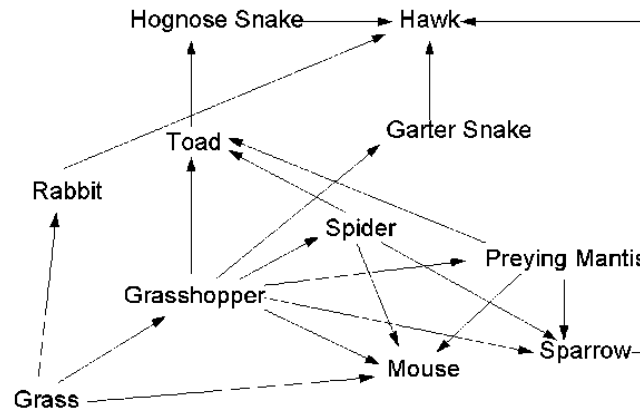
Techniques of Field Ecology

Sampling:

Quadrant Studies:

What do these tell us?

## FOOD WEBS



For the above food web, list the:

Primary producer:

Primary consumers:

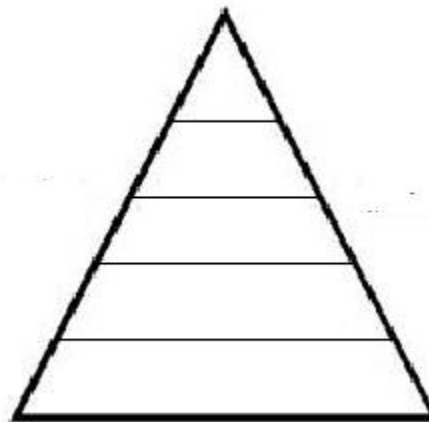
Secondary consumers:

Tertiary consumers:

Quaternary consumers:

Note levels in energy pyramid. Assume producers have 1000 kcal of energy.

## ENERGY PYRAMID



## SYMBIOTIC RELATIONSHIPS

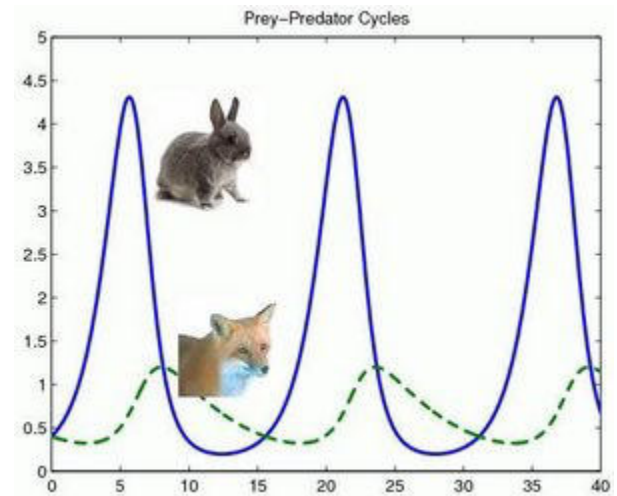
Mutualism:

Commensalism:

Parasitism:

Predator-Prey:

## PREDATOR-PREY RELATIONSHIP



Describe the relationship.