

Population and Community in Ecosystems

A herd of zebras in a savanna landscape. The zebras are in the foreground, with some looking towards the camera and others looking to the side. The background shows a hazy savanna with trees and mountains under a warm, golden light. The text is overlaid on the left side of the image.

A population:

- a group of living things from the same species
- live in the same ecosystem

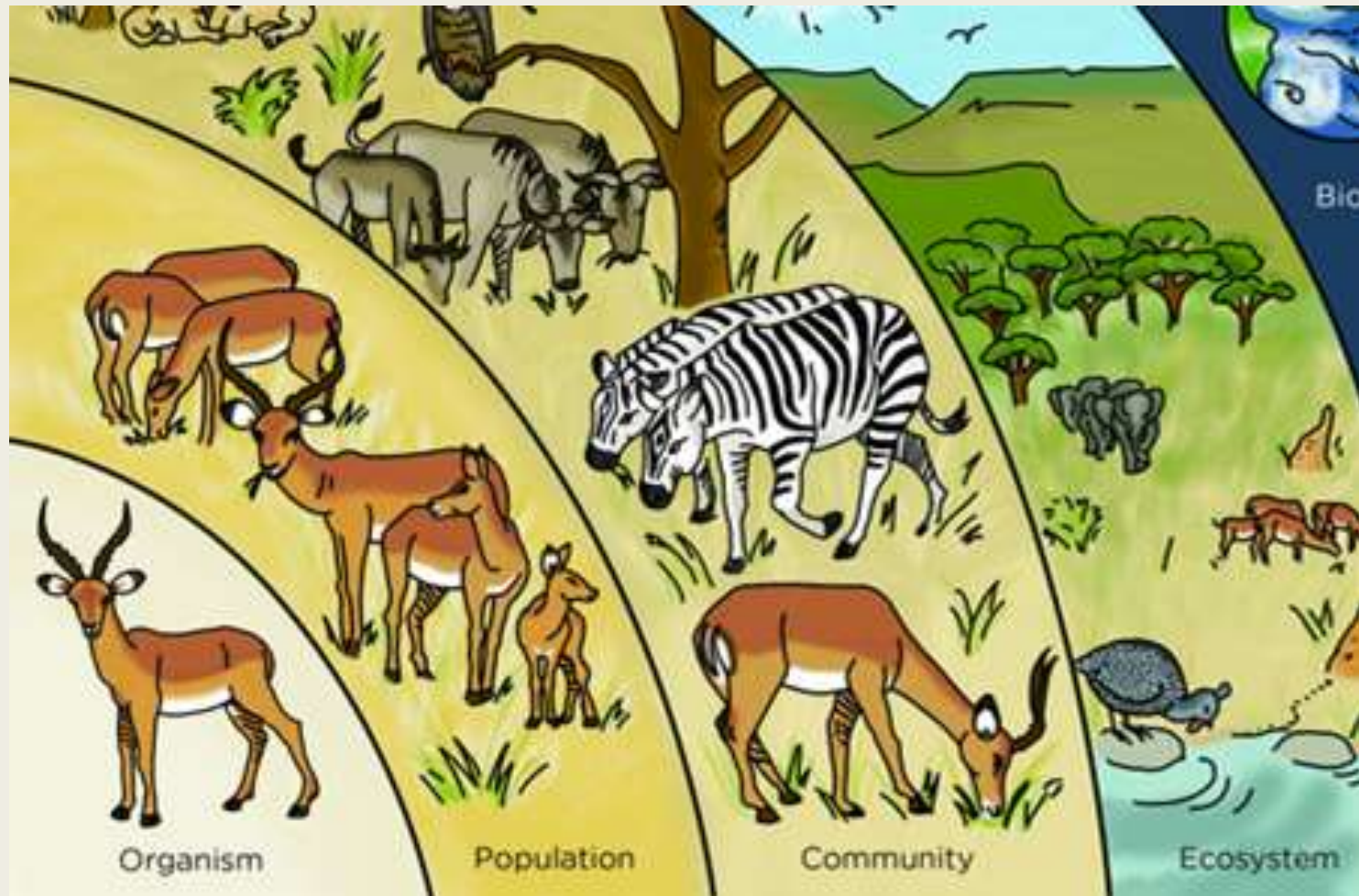
A herd of zebras with black and white stripes stands in a savanna landscape. The background shows rolling hills and trees under a warm, golden light, suggesting a sunset or sunrise. The zebras are in the foreground, with some looking towards the camera and others looking slightly away. The overall scene is a naturalistic depiction of a zebra herd in their habitat.

Fill in the Blank!

A population :

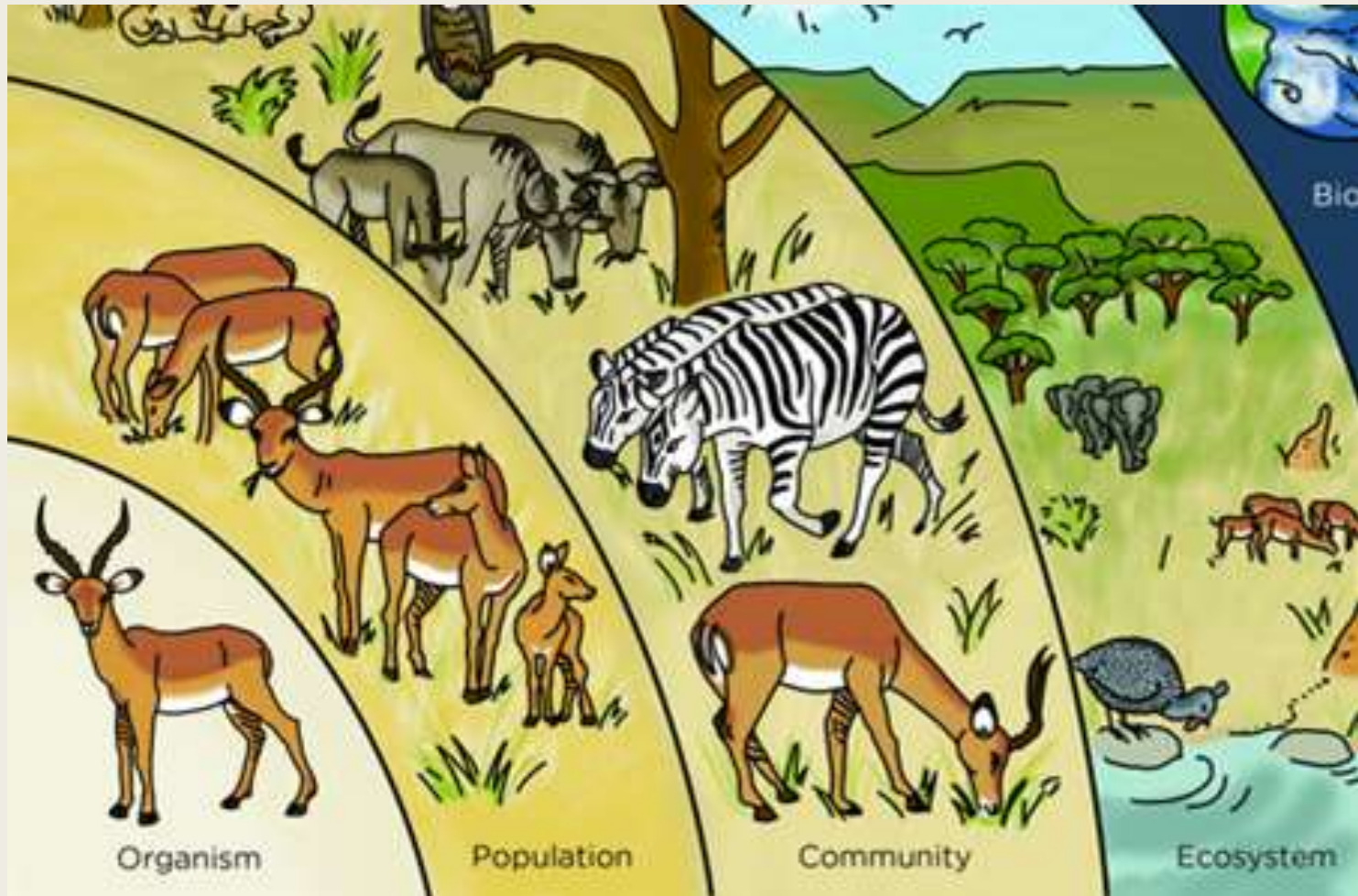
- a group of living things from the same species
- live in the same ecosystem

A **community** is a group of populations that live in the **same ecosystem**.



Fill in the Blank!

A community is a group of populations that live in the same ecosystem.



Relationships
between members
of the **same**
species: **families**
and **groups**



Fill in the Blank!

Relationships
between members
of the same
species: families
and groups





Relationships between members of different species, or two different types of living things, is called **symbiosis**.



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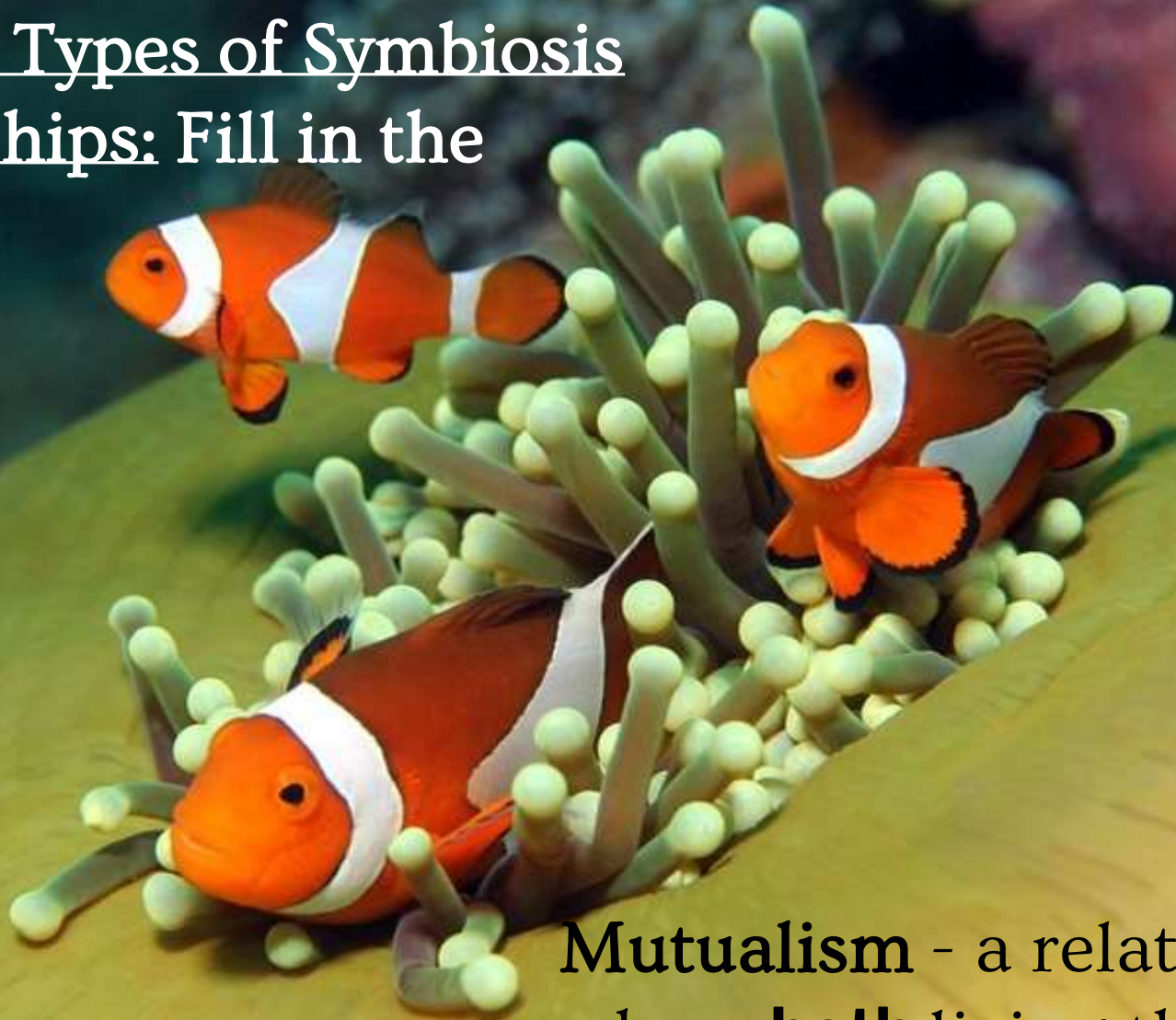
Different Types of Symbiosis Relationships



Mutualism - a relationship where both living things benefit

Ex. Clownfish & anemone

Different Types of Symbiosis
Relationships: Fill in the
Blank!



Mutualism - a relationship
where **both** living things
benefit

Ex. Clownfish & anemone

Different Types of Symbiosis Relationships

Commensalism - a relationship where one living thing benefits and the other is not affected. Ex. Cattle & cattle egret



Different Types of Symbiosis Relationships

Fill in the Blank!

Commensalism - a relationship where one living thing **benefits** and the other is not affected. Ex. Cattle & cattle egret



Different Types of Symbiosis Relationships

Parasitism - a relationship where one living thing benefits and the other is harmed.

Ex. Mosquitoes and humans



Different Types of Symbiosis Relationships

Fill in the Blank!

Parasitism - a relationship where one living thing **benefits** and the other is **harmed**.

Ex. Mosquitoes and humans



In an ecosystem, some populations **feed** on other animals. For example, a frog eats a bug. The frog is the **predator**, and the bug is the **prey**.



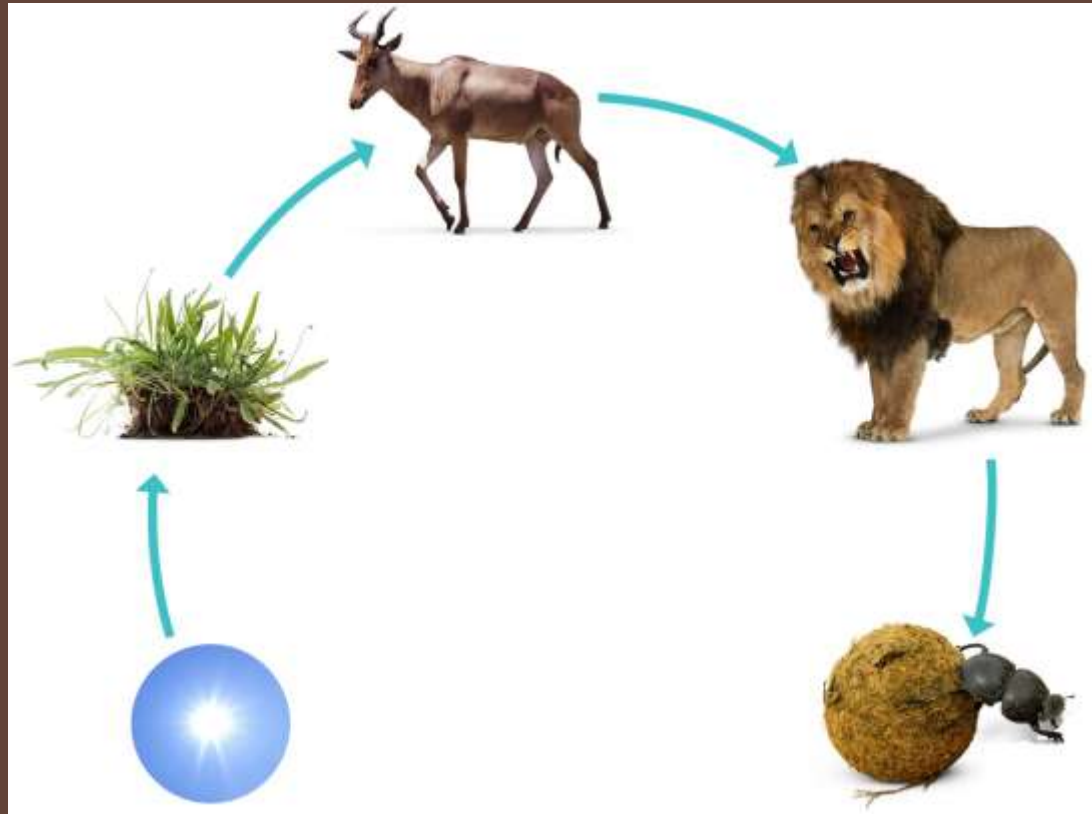
Fill in the Blank!

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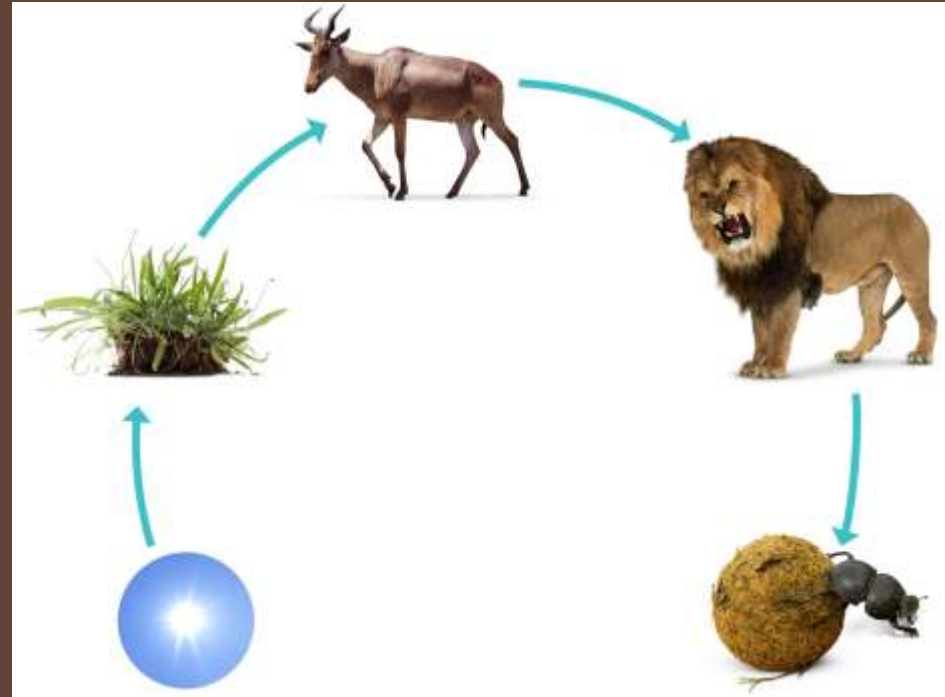
Food Chains

We use food chains to show how living things are related to each other through the food that they eat.



Food Chains

The **first link** is usually a plant because it makes its own food. The **second link** is usually a herbivore because they eat plants. The **other links** are carnivores or omnivores because they eat other animals.



Producers

Living things that make their own food. Ex.
Plants



Primary Consumers

Herbivores that eat producers.

Ex. Rabbits and cows



Vocab:
Herbivores
=
herbívoros



Secondary Consumers

Carnivores and omnivores that eat primary consumers.

Ex. Lions and bears

Vocab:

carnivores = carnívoros

omnivores = omnívoros



Decomposers

Living things that eat the remains of other living things. Ex. Fungi



MATCH TO THE PICTURE :

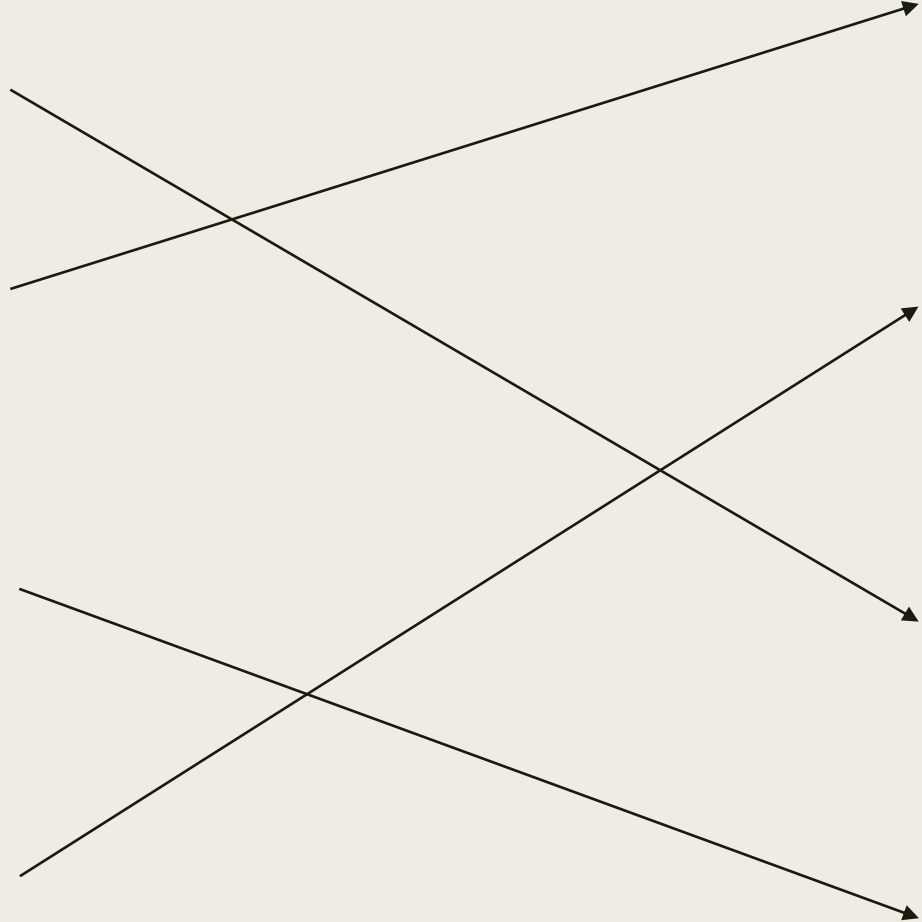
Food Chains

Decomposers

Producers

Primary
Consumers

Secondary
Consumers



Is this a
producer,
primary
consumer,
secondary
consumer, or
decomposer?





Primary
Consumer!

Why?




Because it is
a herbivore
that eats
producers!

What is it?



A mini
highland
cow!




Is this a
producer,
primary
consumer,
secondary
consumer, or
decomposer?



Producer!

Why?



It is a
living
thing that
makes its
own food.

What is
it?



Plants!

Is this a
producer,
primary
consumer,
secondary
consumer, or
decomposer?



Decomposer!

Why?



It is a living
thing that
eats the
remains of
other living
things.

What is it?



Fungi!



Is this a
producer,
primary
consumer,
secondary
consumer, or
decomposer?



Secondary
consumer!

Why?



It is a
carnivore that
eats primary
consumers
(herbivores).

What is it?



Lion!



EXAMPLES OF

SYMBIOSIS



Pop Quiz!
What is symbiosis?

EXAMPLES OF

SYMBIOSIS



Answer

Relationship between members of
different species

EXAMPLES OF

SYMBIOSIS



Pop Quiz!

What are the 3 types of symbiosis relationships?

EXAMPLES OF

SYMBIOSIS



Answer

Mutualism, Commensalism, Parasitism