1. A group of a specific species is called?

**Review Packet: Populations and Communities**

A population

1. What is a group of individuals of multiple species in a local area called?

A community

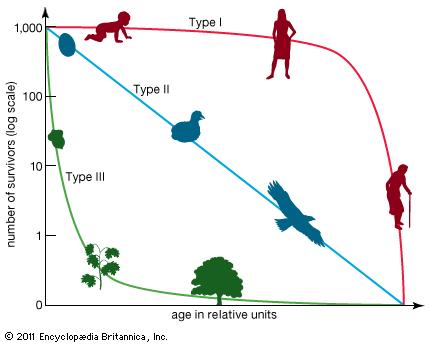
1. What is population density?

How many organisms are in a local area.

1. Give an example of population density.

There are 12 beetles per square meter

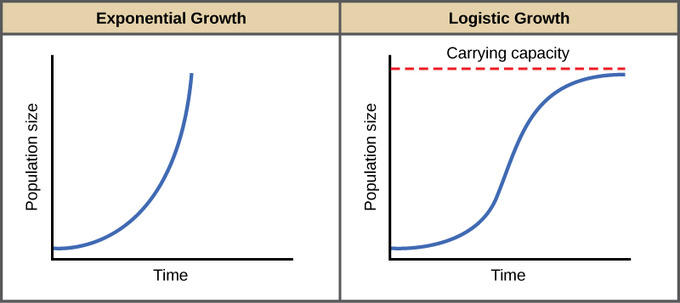
1. Draw a survivorship curve of humans below.



1. What is a logistic curve?

A curve that represents a population that has grown and is now hitting its carrying capacity.

1. Draw a logistic curve below.



1. The letter “K” describes something on a logistic curve. What is that?

Carrying capacity.

1. Some organisms produce many offspring but few survive. If one organism has 3000 offspring, how many are expected to survive and reproduce?

2

1. If more offspring survive than the parents that made them, a population would be increaseing
2. What 4 factors increase or decrease a population?

Immigration, Emigration, Births and Deaths

1. How do predator and prey species relate?

Predators eat Prey

1. If there are more prey species on a given year, what is expected from the predators?

More predators in near future.

1. If there are more predators species on a given year, what is expected?

Prey populations will decline

1. What is the current human population?

~7 Billion

1. Is the human population rising or falling?

Rising

1. When is human population expected to hit around 9 million?

2050

1. What are the 6 major types of relationships?

Predation + , -

Herbivory +, -

Competition - , -

Mutualism + , +

Commensalism + , 0

Parasitism + , -

1. What are the + and – of each type of relationship?

See above

1. What are the three types of symbiotic relationships?

Mutualism + , +

Commensalism + , 0

Parasitism + , -

1. Describe and give an example of each one.

Mutualism – Clownfish and anemone

Commensalism – Cattle egret and Water Buffalo

Parasitism – Tick and Deer

1. What are some examples of ways prey organisms will try to avoid predators?

Speed/Agility, False Spots or markings, camouflage, mimicry or chemical defenses

1. What are some ways that plants will try to avoid predators?

Physical or chemical defenses

1. What is a food web?

An interconnected web that shows where energy is being transferred.

1. What are the levels on a food web?

Producer, primary consumer, secondary consumer and tertiary consumer

1. Describe and provide an example for each level on a food web.

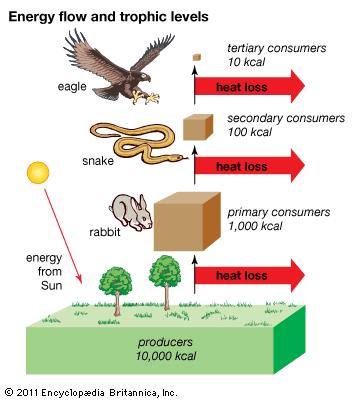
Producer – Green Plants

Primary Consumer – Grasshopper

Secondary Consumer – Frog

Tertiary Consumer - Hawk

1. What is a trophic pyramid?



1. How much energy is passed from level to level in a trophic pyramid?

10%