

Name: _____

Ecology Test Review



Individual Species Population	Microscopic Macroscopic Resources	Habitat Coexistence Biotic	Abiotic Carrying Capacity Community
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A) Fill in the blank

1. The number of species living in an area is called a _____
2. _____ populations, such as bacteria and yeast are so tiny they you need a microscope to see them.
3. _____ populations are large enough to be seen with the naked eye.
4. A single (1) living thing is referred to as an _____
5. The place where an animal lives is called its _____
6. Ms. Piggy and Kermit the frog can't produce offspring together because they are not the same _____
7. In a forest trees, rabbits, and bacteria are examples of _____ elements/factors.
8. Rocks, water and dirt are examples of _____ elements/ factors in an area.
9. The combination of fish, frog, and algae populations make up a _____ when they are all living in the same area.
10. The maximum number of species that can live in a certain area without running out of resources is considered the _____.

B) Food Chains

1. Draw a simple food chain using 3 organisms.
2. Give an example of a producer, herbivore, carnivore and omnivore.
3. What would happen to a food chain if one of the organisms died off?
4. What job do decomposers have in an ecosystem?

C) Types of Relationships

1. What are the 6 main types of relationships between organisms? Give an example of each.

Relationship	Example

D) Population Change

1. Draw a line graph to show the change in **hare** over the past 10 years.

Years	Population of snowshoe hares (thousands)	Population of lynx (hundreds)	Years	Population of snowshoe hares (thousands)	Population of lynx (hundreds)
0	20	10	6	15	10
1	55	15	7	50	60
2	65	55	8	75	60
3	95	60	9	20	10
4	55	20	10	25	5
5	5	15			



- Why does the population of **lynx** rise rapidly?
- What causes **lynx** population to decrease quickly?
- Estimate the carrying capacity for **lynx**. _____
- Estimate the carrying capacity for **snowshoe hares**. _____
- What would happen to the **snowshoe hare** population if the **lynx** all died?