Ecology	Rasics -	Lesson	1	Notes
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Directions: Watch the <u>INTRO TO ECOLOGY</u> video on	EDPuzzle to help you complete these notes.
1. Ecology is the study of the relations of	to one another and to their physical
2. The survival of species is dependent on other living of known as Humans need plants need the we provide the	to produce and plants
3. An is a scientist who studies	ecosystems.
4. The includes all the living the	nings on earth.
5. An includes all the organ particular place.	nisms and nonliving environment found in a
6. The includes only refers to all the members of one	
7. List the levels of organization from broadest to the most	specific in the chart. LEVELS OF ORGANIZATION Broadest
8. The place where an organism lives is called its	The
living parts are called factors, are called factors.	while the nonliving parts
9. The job or role of an organism within its environment is	called its
10. What is the difference between a generalist and a sp example of each.	ecialist species? Give an
	—
	Most Specific

Ecology Basics: Lesson 2 Notes - Watch the <u>SERIOUS SCIENCE</u>: <u>BIOLOGICAL CARRYING CAPACITY</u> video on EDPuzzle to complete this page.

1) An can only support a libegin happening.	imited number of species before problems can
2) Biological carrying capacity is the capacity of an ecosy number of certain	stem to or support a healthy
3) The three variables used to determine the carrying cap foods, and	
4) What are the two main food sources for lake sturgeon?5) Why are lake flies not considered a sustainable food so	urce?
6) Explain how too many walleye in the lake could affect	the sturgeon population.
7) How do biologist regulate the populations in an ecosyst	tem? Give an example
8) What are three factors that might affect the school gard 1	

Ecology Basics: Lesson 3 Notes - Watch the $\underline{POPULATION\ ECOLOGY}$ video on EDPuzzle to complete this page.

1. Identify each type of "ecology".
• Ecology – Study of groups within one species and how they live together in one geographic area
• Ecology – Study of groups of different organisms (different species) living together and how they influence each other.
• Ecology – Study of how all living and non-living things interact within an entire ecosystem.
2. A is a group of individuals of one species who interact regularly, which depends on how close or far away they are from each other.
3. The of the population depends on the number of mosquitoes in a specific area. It might increase due to births and (individuals moving in) or decrease due to deaths or (individuals moving out.)
4. The of mosquitoes depends on where individuals are located geographically in relation to others, such as all in one area or spread through the county.
5. The term refers to the number of offspring that are produced in an animal's lifetime, such as (in 40 years) for black rhinos compared to (in 2 weeks) for a mosquito.
6 factors determine a population's ability to grow, such as temperature, habitat needs, food, reproduction, etc.
7. What do female mosquitoes need to reproduce? Blood from a,, temperatures, a mate, and space with water.
8. The capacity is the number of individuals a habitat can sustain based on the resources it has available.
9. What is the difference between density-independent and density-dependent?
DENSITY Depends on the number of animals in an area (more mosquitoes = more bats)
DENSITY Does not depend on how many animals are in an area (storm washing away stagnant water or colder temperatures that would slow reproduction).
10. Exponential means that a population will grow exponentially up to a point in which it can't be sustained.
11. Based on the January → June graph, the carrying capacity for mosquitoes in this habitat is
12. What was the rate of growth for the Dallas mosquito population?