# Interactions of Life

# Section 1 Living Earth

A. Biosphere—the	e part of Earth that sup	ports	
			's surface, and the surrounding
2. Made up of o	different	that are home to d	ifferent kinds of organisms
B. Ecosystem—all environment	the organisms living in	an area and the	parts of their
1	is the study of interact	ions that occur among or	ganisms and their environment.
		organisms in an ecosysten	
3. A communit	y is all the	in an ecosystem.	
C	the place in which an o	rganism lives	
	the kinds of food, shel	ter, temperature, and	the organism
2. Example:	are the woodpe	ecker's habitat	in inabidadi .
Section 2 Popu	ulations	L. Die Jaron Gan energie als e manural Non aging as ebus .	h. Carolyones, and
		seek the same	
			the population's size.
		between members of	
		er a population is healthy	
		of a population that occup	
		of a wildlife population	
		n a wilding population	
	method method		
	affect population size		
a of individua	als in a population	ny living or nonliving feat	ure that restricts the number
b. Carrying ca	apacity—the	number of individua	ls of one species that an

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Note-taking		
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	The second secon	A SEPTEMBER OF THE PARTY OF THE

с	potential-	-highest rate of reproduction under	ideal conditions
d	and	rates	
е	of orga	nisms into or out of an area	
C. Exponentia	l growth—the lar	ger a population becomes, the	it grows

### **Interactions Within Communities** Section 3

- A. \_\_\_\_\_\_\_source of energy that fuels most life on Earth
  - 1. Producers—organisms that use an outside energy source to make
    - a. Most producers use the Sun and contain \_\_\_\_\_\_, a chemical required for photosynthesis.
    - b. Some producers, found near volcanic vents on the ocean floor, use inorganic molecules as energy sources for \_\_\_\_\_
  - 2. Consumers—organisms that cannot make their own energy-rich molecules; they obtain energy by \_\_\_\_\_\_.
    - a. Herbivores, such as deer and rabbits, eat \_\_\_\_\_.
    - b. Carnivores, such as frogs and lions, eat
    - c. \_\_\_\_\_, such as pigs and humans, eat both plants and animals.
    - d. \_\_\_\_\_, such as earthworms and bacteria, eat dead organisms.
  - 3. Food chain—a model that shows the \_\_\_\_\_\_ among the organisms in an ecosystem
- B. Symbiosis—any close relationship between \_\_\_\_\_
  - 1. \_\_\_\_\_a symbiotic relationship in which both species benefit
  - 2. Commensalism—a symbiotic relationship in which one organism \_\_\_\_\_ and the
  - 3. Parasitism—a symbiotic relationship in which one organism \_\_\_\_\_ and the other

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# Meeting Individual Needs

# Note-taking Worksheet (continued)

C	—an organism's role is its en avoids danger, finds a mate and cares for	nvironment, including its l	habitat and food, and how it
	1. Predator and prey		
	a	captures and eats other con	nsumers
	<b>b.</b> the organism that is	captured by the predator	*
	c. Predators limit the size of prey po species that can live in an ecosyste	opulations,em	the number of different
2	2 actions improve a	a species' survival.	
	a. Example: one deer warns the other	ers of in t	he area.
	b. Example: individual pe	erform different tasks requ	ired for the survival of all.