Unit 1: Ecology ECOLOGICAL RELATIONSHIPS Notesheet 2

SB4a. Investigate the relationships among organisms, populations, communities, ecosystems, and biomes

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| What is **Ecology**? |  | |
| What is the difference between abiotic & biotic factors? | **Abiotic** | **Biotic** |
| How is the biosphere organized?  Draw a picture, create a visual, or make a diagram of these levels on the back of this paper. | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** one individual of a species | |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** group of organisms of the same species that live together and reproduce. | |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** several different populations that live and interact in the same habitat. (all populations interacting together) | |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** interactions between populations and surroundings (interactions between biotic and abiotic factors) | |
| **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-** ecosystems of the same type- climate, plants, animals, locations. | |
| Differentiate between habitat & niche. | **Niche**   * It’s job * Herbivore, scavenger, decomposer | **Habitat**   * Ex: log, tree, stream |
| What are the types of feeding relationships in an ecosystem? | **Autotrophs** (producers)   * Ex: plants, algae | |
| **Heterotrophs** (Consumers) | **Herbivore-** |
| **Carnivore-** |
| **Omnivore-** |
| **Decomposer** (bacteria/fungi)- |
| **Scavenger** (vulture/worm)- |
| What are the types of survival relationships in an ecosystem?  **Symbiosis**:  Any relationship between 2 or more organisms | **Predation**: | |
| **Competition**: | |
| **Mutualism**:  Ex: lichen (algae & fungus live together), tickbirds eat parasite on rhinos | |
| **Parasitism**:  Ex: tapeworm eats food from organisms intestine, leech/mosquito suck blood | |
| **Commensalism**:  Ex: remoras live on shark body, eat food scraps, sharks don’t realize they are there. | |