Ecological Relationships Bingo

Photosynthesis – The process of making carbohydrates (sugar) and oxygen from carbon dioxide, water, and sunlight. Plants use chlorophyll to do this.

Autotrophs – Also called producers, these are the first organisms in the food chain. They manufacture their own food, normally by photosynthesis.

Heterotrophs – Also called consumers, these organisms cannot make their own food. They eat producers (autotrophs) or consumers (heterotrophs).

Decomposers – Organisms that break down other dead organisms, recycling nutrients back to the producers in an ecosystem. Examples: Bacteria, Fungi.

Food Webs – Complex feeding relationships among organisms in all areas of the earth. Food webs are made up of producers (autotrophs), Consumers (heterotrophs), and decomposers.

Trophic level – The feeding level in a food web. For example: producer, primary consumer, or secondary consumer.

Niche – The role of a species within an ecosystem; its relationships and interactions with other organisms, and its effect on the environment.

Population – All the members of one species in a habitat at one time.

Community – All the organisms of all species in a habitat at one time.

Ecosystem – All of the living plants, animals, and micro-organisms (biotic factors) in an area together with all of the non-living physical (abiotic) factors of the environment.

Biome – A large geographical area of distinctive plant and animal groups, which are adapted to that particular environment. The climate and geography of a region determines what type of biome can exist in that region.

Biomass – The total mass of all living material in a specific area.

Symbiosis – A close association of animals or plants of different species. The three types of symbiotic relationships are: mutualism, commensalisms, and parasitism.

Plankton – Living organisms that drift in a body of water and are too weak or too small to swim against currents. Plankton can be plant-like (phytoplankton) or animal-like (zooplankton).

Pelagic Zone – The part of a water column that is not near the coast or sea floor; the open
Ocean.
Benthic Zone – The ecological region at the bottom of a body of water, including the sediments and sedimentary organisms; the sea floor.

Photic Zone – The region at the surface of a body of water that receives enough sunlight for photosynthesis to occur.

Eutrophication – When a body of water receives nutrients that simulate excessive plant growth. When the excess plants eventually die, the decomposition process uses up dissolved oxygen, harming other organisms.

Bioaccumulation – The absorption and concentration of toxic chemicals, heavy metals, and certain pesticides in plants and animals.

Invasive Species – A species in an ecosystem that is not native to the ecosystem and causes economic and/or environmental harm, or poses a threat to human health. All types of living organisms (plants, animals, bacteria, etc.) can be invasive.

Parasitism – A biological relationship between two organisms where one organism takes from the other sometimes for a long period of time.

Commensalism – a biological interaction between two organisms where one benefits and the other receives neither benefit nor harm.

Mutualism – A biological interaction between two organisms where each individual derives a fitness benefit.

Competition – A biological relationship that occurs when two or more organisms strive for a goal that cannot be shared, in the same environment.

Predation – A biological interaction where an organism feeds in, or derives benefit from its prey. This usually ends in death of the prey.

Ecological Relationship Bingo

competition	**eutrophication**	**population**	**symbiosis**	**food webs**
autotrophs	**community**	**decomposers**	**benthic zone**	**niche**
mutualism	**biome**	**bioaccumulation**	**heterotrophs**	**invasive species**
photic zone	**FREE BINGO SPACE!**	**photosynthesis**	**plankton**	**pelagic zone**
trophic level	**commensalism**	**parasitism**	**ecosystem**	**biomass**

Ecological Relationship Bingo

biomass	**parasitism**	**predation**	**ecosystem**	**niche**
population	**FREE BINGO SPACE!**	**decomposers**	**commensalism**	**eutrophication**
heterotrophs	**invasive species**	**community**	**food webs**	**photosynthesis**
pelagic zone	**bioaccumulation**	**mutualism**	**trophic level**	**benthic zone**
photic zone	**plankton**	**autotrophs**	**competition**	**biome**

Ecological Relationship Bingo

biomass	**invasive species**	**FREE BINGO SPACE!**	**photosynthesis**	**niche**
heterotrophs	**autotrophs**	**symbiosis**	**ecosystem**	**parasitism**
population	**eutrophication**	**community**	**plankton**	**mutualism**
competition	**benthic zone**	**photic zone**	**predation**	**food webs**
commensalism	**trophic level**	**decomposers**	**bioaccumulation**	**biome**

Ecological Relationship Bingo

mutualism	**heterotrophs**	**ecosystem**	**predation**	**community**
biome	**benthic zone**	**photic zone**	**invasive species**	**trophic level**
autotrophs	**commensalism**	**decomposers**	**parasitism**	**food webs**
bioaccumulation	**symbiosis**	**photosynthesis**	**FREE BINGO SPACE!**	**competition**
eutrophication	**niche**	**population**	**biomass**	**plankton**

Ecological Relationship Bingo

food webs	**symbiosis**	**competition**	**commensalism**	**predation**
biomass	**parasitism**	**decomposers**	**niche**	**mutualism**
pelagic zone	**photic zone**	**ecosystem**	**heterotrophs**	**invasive species**
plankton	**trophic level**	**bioaccumulation**	**eutrophication**	**benthic zone**
biome	**autotrophs**	**FREE BINGO SPACE!**	**community**	**photosynthesis**

Ecological Relationship Bingo

photosynthesis	**eutrophication**	**invasive species**	**parasitism**	**niche**
decomposers	**food webs**	**pelagic zone**	**predation**	**mutualism**
autotrophs	**trophic level**	**ecosystem**	**population**	**bioaccumulation**
photic zone	**benthic zone**	**commensalism**	**plankton**	**heterotrophs**
biome	**FREE BINGO SPACE!**	**symbiosis**	**competition**	**biomass**

Ecological Relationship Bingo

ecosystem	**benthic zone**	**photosynthesis**	**photic zone**	**mutualism**
pelagic zone	**commensalism**	**predation**	**symbiosis**	**competition**
niche	**biome**	**decomposers**	**biomass**	**autotrophs**
parasitism	**population**	**heterotrophs**	**eutrophication**	**food webs**
bioaccumulation	**trophic level**	**plankton**	**FREE BINGO SPACE!**	**community**

Ecological Relationship Bingo

plankton	**heterotrophs**	**predation**	**photosynthesis**	**photic zone**
competition	**autotrophs**	**ecosystem**	**pelagic zone**	**symbiosis**
decomposers	**biomass**	**mutualism**	**FREE BINGO SPACE!**	**food webs**
commensalism	**biome**	**trophic level**	**parasitism**	**invasive species**
community	**population**	**eutrophication**	**benthic zone**	**niche**

Ecological Relationship Bingo

eutrophication	**invasive species**	**population**	**biomass**	**symbiosis**
plankton	**competition**	**mutualism**	**FREE BINGO SPACE!**	**predation**
pelagic zone	**community**	**bioaccumulation**	**niche**	**autotrophs**
food webs	**commensalism**	**biome**	**photic zone**	**heterotrophs**
decomposers	**trophic level**	**parasitism**	**ecosystem**	**benthic zone**

Ecological Relationship Bingo

biomass	**invasive species**	**FREE BINGO SPACE!**	**photosynthesis**	**niche**
heterotrophs	**autotrophs**	**symbiosis**	**ecosystem**	**parasitism**
population	**eutrophication**	**community**	**plankton**	**mutualism**
competition	**benthic zone**	**photic zone**	**predation**	**food webs**
commensalism	**trophic level**	**decomposers**	**bioaccumulation**	**biome**

Ecological Relationship Bingo

bioaccumulation	**biome**	**ecosystem**	**predation**	**eutrophication**
invasive species	**FREE BINGO SPACE!**	**community**	**mutualism**	**population**
decomposers	**plankton**	**parasitism**	**autotrophs**	**commensalism**
benthic zone	**niche**	**photic zone**	**biomass**	**pelagic zone**
heterotrophs	**trophic level**	**photosynthesis**	**food webs**	**symbiosis**

Ecological Relationship Bingo

competition	**eutrophication**	**population**	**symbiosis**	**food webs**
autotrophs	**community**	**decomposers**	**benthic zone**	**niche**
mutualism	**biome**	**bioaccumulation**	**heterotrophs**	**invasive species**
photic zone	**FREE BINGO SPACE!**	**photosynthesis**	**plankton**	**pelagic zone**
trophic level	**commensalism**	**parasitism**	**ecosystem**	**biomass**

Ecological Relationship Bingo

biomass	**parasitism**	**predation**	**ecosystem**	**niche**
population	**FREE BINGO SPACE!**	**decomposers**	**commensalism**	**eutrophication**
heterotrophs	**invasive species**	**community**	**food webs**	**photosynthesis**
pelagic zone	**bioaccumulation**	**mutualism**	**trophic level**	**benthic zone**
photic zone	**plankton**	**autotrophs**	**competition**	**biome**

Ecological Relationship Bingo

mutualism	**heterotrophs**	**ecosystem**	**predation**	**community**
biome	**benthic zone**	**photic zone**	**invasive species**	**trophic level**
autotrophs	**commensalism**	**decomposers**	**parasitism**	**food webs**
bioaccumulation	**symbiosis**	**photosynthesis**	**FREE BINGO SPACE!**	**competition**
eutrophication	**niche**	**population**	**biomass**	**plankton**