

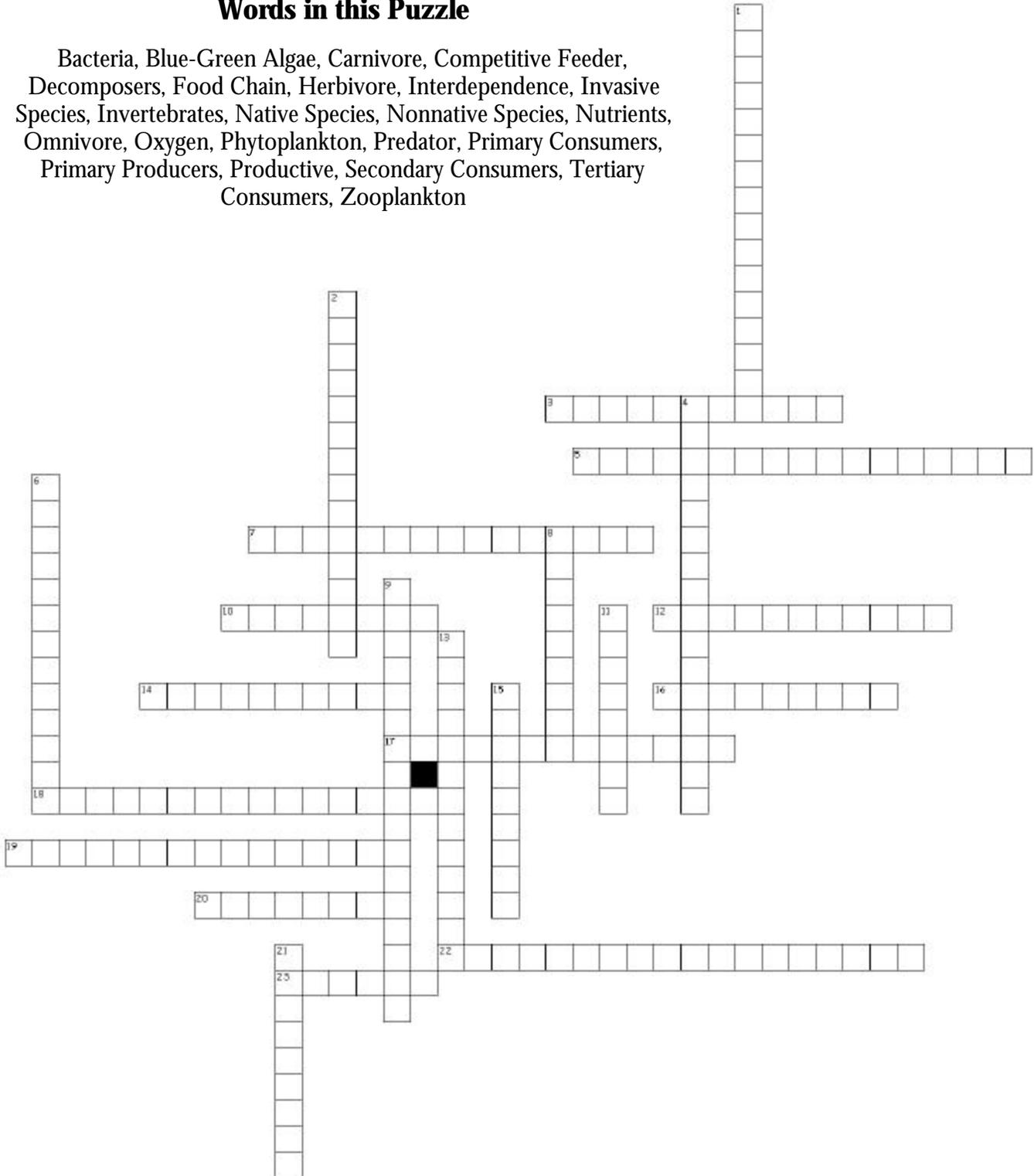


# The Ecology of Manchester's Urban Ponds: A Crossword Puzzle



## Words in this Puzzle

Bacteria, Blue-Green Algae, Carnivore, Competitive Feeder,  
Decomposers, Food Chain, Herbivore, Interdependence, Invasive  
Species, Invertebrates, Native Species, Nonnative Species, Nutrients,  
Omnivore, Oxygen, Phytoplankton, Predator, Primary Consumers,  
Primary Producers, Productive, Secondary Consumers, Tertiary  
Consumers, Zooplankton



## Across

3. Agents such as bacteria that break down dead and decaying organisms into the essential elements of life such as nitrogen and phosphorus
5. Larger fish and animals that feed on smaller consumers
7. A plant or animal that becomes a nuisance in a lake or pond due to its rapid growth
10. An organism that feeds on another organism
12. Microscopic animals that float in the water and consume phytoplankton and other microscopic materials
14. A lake that produces large quantities of plants, including both algae and vascular plants
16. Essential elements of life, used as food, nitrogen, phosphorus, etc
17. Animals without backbones, such as zooplankton and mussels
18. A species of plant or animal that was introduced to a lake from a different lake or region
19. The idea that all elements within an ecosystem are of equal importance to each other as well as to the ecosystem as a whole
20. An organism that eats all components of the food web, including producers and consumers
22. Animals and plants that consume primary consumers
23. Element that along with hydrogen makes up the water molecule

## Down

1. Plankton and aquatic higher plants that manufacture their own food in the form of sugar
2. A type of algae that may become a problem in a lake with too many nutrients
4. Herbivores who consume primary producers
6. The microscopic algae that live in lakes and ponds
8. An organisms that eats animals
9. An organism that competes with another organism for the same food
11. Tiny microorganisms that are important decomposers in lakes
13. Species of plants or animals that have been a part of a lake since the lake was formed and evolved
15. An organism that eats plants
21. An arrangement of the organisms of an ecological community according to the order in which each uses the lower members as a food source