

# Nutrient Pollution

© 2020, SimBio. All Rights Reserved.

## Contents

### **Section 1: Too Much of a Good Thing**

Discover how excess nutrients can cause problems that propagate through a lake community, sometimes causing fish to die.

- Something's Fishy in the Lake
- Who's in the Lake?
- Excess Nutrients Can Be Deadly
- P in the Water
- What Is a Nutrient?
- What Happened to the Oxygen?
- Sources of Nutrient Pollution
- Test Your Understanding

### **Section 2: DO or Die**

Conduct experiments to determine how trophic interactions in the lake affect the impacts of nutrient pollution.

- Nutrient Pollution with a More Realistic Community
- Trophic Interactions
- Experimenting on the Whole Community
- The Effects of Consumers
- Direct and Indirect Effects
- Test Your Understanding

### **Section 3: Toxins!**

Investigate how toxic contaminants move through a lake community.

- Heavy Metal Pollution in Aquatic Ecosystems
- Mercury Rising
- Biological Magnification
- Test Your Understanding

### **Section 4: Mystery in the Lake**

Explore different ways that lakes experience eutrophication.

- Mystery in the Lake
- Experiment with a Cyanobacterial Bloom
- Managing Cyanobacteria
- Cyanobacterial Blooms and Climate Change
- Test Your Understanding

### **Section 5: Graded Questions**

Graded Questions