

## **Grade 7: Ecological balance**

Students will understand that in nature the diversity of living and non-living things interact together to create a system, specifically an ecosystem.

If a single factor is changed the whole system may be altered and the impact would be felt worldwide.

This lesson focuses on the interaction between organisms and the interactions between organisms and their environment.

### **Individual Expectations**

Demonstrate an understanding of the basic elements of an ecosystem; investigate the interactions that occur within an ecosystem including producers, consumers, and more; and explain why an ecosystem is limited in the number of living things it can support.

### **Science and Technology Ideas/Vocabulary:**

Abiotic

Energy

Producer

Biotic

Population

Consumer

Predator

Community

Ecosystem

Competition

Prey

## **Grade 7: Impacting the Ecological balance**

Students will learn that Ecosystems are in a constant state of change. These changes arise from both nature and human activity. Humans have many impacts on the environment both positive and negative, and it is therefore our responsibility to be aware of these impacts, try to find ways to control them, and maintain healthy ecosystems.

This lesson explores the use of selected technologies on the environment, and how Ecology and Economy are usually pitted against one another, when in fact they can work together for our benefit of the planet.

### **Individual Expectation**

Understand that environments are constantly changing; identify both positive and negative changes that arise from human activity; describe ways in which technology disrupts the balance in nature; and identify ways in which we depend on ecosystems and what we can do to help protect them.

### **Science and Technology Ideas/Vocabulary:**

Ecosystems	Deforestation	Over-harvesting
Pollution	Reuse	Endangered
Temperature	Reduce	Recycle