

# Plants and Animals

*Children enter the world of molecular biology as they explore the things that sustain life in plants and animals!*

## **SUMMARY:**

Students explore living things! Learn about how a plant uses sunlight to create food, and see how air, water, and other nutrients contribute to an animal's growth. Examine the visible wave spectrum of different light sources to see why sunlight is best. Use microviewers to examine plants up close, and test for starch to see how plants provide energy for themselves and us! Find out how animals depend on plants and other animals to stay alive when you classify herbivores, omnivores, and carnivores. Act out a food web! Keep your own plant that will photosynthesize and grow right at home.



## **EDUCATIONAL VALUE:**

This workshop provides students with an introduction to photosynthesis and the role of plants in food webs. Children will learn about how a plant uses sunlight to create food, and see how air, water, and other nutrients contribute to an animal's growth. They will find out how animals depend on plants and other animals to stay alive. The students will also look at the nutrients and other resources needed for animals to survive and reproduce. Hands-on activities encourage students to interact with the concepts presented. This lesson provides an opportunity to develop scientific skills through inquiry based instructional methods.



## **TAKE-HOME MESSAGE:**

- 1 Plants and animals are living things.
- 2 Living things need energy to grow.
- 3 Plants need water, nutrients, and light for energy and growth.
- 4 Animals need plants and sometimes other animals as energy sources.

## **TAKE-HOME PRODUCT:**

Mad Science® Go Greenhouse

## **North Carolina Essential Standards:**

Summarize the needs of living organisms for energy and growth.

- 1.L.2.1 Summarize the basic needs of a variety of different plants (including air, water, nutrients, and light) for energy and growth.
- 1.L.2.2 Summarize the basic needs of a variety of different animals (including air, water, and food) for energy and growth.