

Grade 6 Life Science

Unit Lesson Plan

Grade: Grade 6

Strand: Life Sciences

Benchmarks:

- LS.1.A. Describe simple life cycles of plants and animals and the similarities and differences in their offsprings.
- LS.1.B. Categorize features as either inherited or learned e.g. flower colour, eye colour is inherited, language is learned.
- LS.1.C. Describe patterns of structures and functions of living things.
- LS.1.D. Describe relationships among various organisms in their own environments (predator- prey; parasite-host; food chains-food webs)

Lesson 1: Pollination at the Botanical Gardens

Lesson 2: Soil Testing

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Lesson Plan	Pollination at the Botanical Gardens
Lesson Duration	
Reference	LS.1.A. Describe simple life cycles of plants and animals and the similarities and differences in their offsprings. LS.1.B. Categorize features as either inherited or learned (e.g. Flower colour, or eye colour is inherited, language is learned). LS.1.C. Describe patterns of structures and function of living things. LS.1.D. Describe relationships among various organisms in their own environments (predator- prey; parasite-host; food chains-food webs)

Objectives

Identify different processes of pollination. Examine differences and similarities in the relationships between plants and pollinators.

Summary of Tasks

(1) Before going to the Botanical Gardens, pre-teach pollination. Visit the School Garden to collect flowers. Guide students in dissecting the flowers, identifying component parts. Hypothesise which species would be best suited as a pollinator for the selected flowers.

(2) Visit the Botanical Garden and identify different types of pollinators: self-pollinators, cross-pollinators, wind pollinators, etc. Document their findings in their journal - including the location of the plant.

(3) Come back to class to create a pollinator map of the botanical gardens using all the students individual findings to compile a holistic image of what the class encountered.

(4) Optional: National Parks staff give talk about propagation.

Materials

Garden Journal
Flowers
NPT Botanical Garden staff (Green VI supported)

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Lesson Plan	Know Your Soil
Lesson Duration	
Reference	<ol style="list-style-type: none">1. Use investigative procedures to determine patterns and make predictions2. Utilize scientific method, including identification of a problem, developing research questions collecting data and communicating the problem, the evidence and conclusion3. Learn to use tools and equipment safely and demonstrate appropriate values and attitudes

Objectives

Understand soil types and how to build healthy soils.

Summary of Tasks

(1) Identify different soils in the garden using visual clues. Record these in the garden journal. Hypothesise about soil quality and health.

(2) Collect samples per soil testing equipment instruction.

(3) Conduct soil tests following equipment instruction.

(4) Analyze results and compare to hypothesis.

(5) Prepare brief written conclusion. Include plan for improving soil quality

Materials

Soil testing kits (Green VI supplied)
Green VI Coordinator outreach, if required
Garden Journal
Soil samples