

## Daily Lesson Plan

(DLP)

<b>Topic: Root Exploration (what do roots do)</b>		Day: 2
<b>Grade: 2-3</b>	<b>Lesson Name: Root Exploration (what do roots do)</b>	<b>Time :(60 Mins.)</b>

Topic	<b>Root Exploration (what do roots do)</b>		
Weekly key words	Harvesting, container, specific crop,		
Seating plan	<input type="checkbox"/> Individual	<input type="checkbox"/> Pairs	Group of 4
Skill development	<input checked="" type="checkbox"/> Reading <input type="checkbox"/> Reflection <input type="checkbox"/> Other (Specify)	<input checked="" type="checkbox"/> Writing <input type="checkbox"/> Illustration	<input checked="" type="checkbox"/> Discussion <input type="checkbox"/> Presentation <input type="checkbox"/> Collaboration <input type="checkbox"/> Observation <input type="checkbox"/> Research

<b>Objectives:</b> ➤ The students will be able to:	➤ Learn about harvesting in a garden.
<b>Teaching Resources:</b>	Variety of root vegetables (carrots, radish, jicama, onion) • Whole radishes, Radish cut in half lengthwise, Paper plate or cutting boards for each small group, Magnifying glass, Garden Journals for dissection log, Ruler
<b>Teaching Learning Strategies</b>	
<b>Introduction: Oral Discussion:</b> Start the lesson by asking the students to share what do roots do. Take their responses and give feedback. <b>Methodology:</b> Roots serve four functions: absorb water, store nutrients, anchor the plant and store food. The three types of roots are: • The taproot is the large main root that's longer and supports other roots. • The fibrous roots are the stringy roots. • The root hairs are the tiny structures that go between the soil and absorb water and nutrients. <b>Activity: 20 mins</b> Root vegetables are an important part of a healthy diet. Students will explore the function of roots by dissecting a radish. Students will keep a dissection log of their findings in their Garden Journal.	

**Materials:** • Above or Below the Ground Sheet • Variety of root vegetables (carrots, radish, jicama, onion) • Whole radishes • Radish cut in half lengthwise • Paper plate or cutting boards for each small group • Magnifying glass • Garden Journals for dissection log • Ruler • Anatomy of a Radish Sheet Preparation: 1. Gather several root vegetables (carrots, radishes, jicama, onion) from the garden or grocery store. Try to choose root vegetables that have their leaves and obvious root hairs. 2. Determine the number of groups. Gather enough radishes from the garden so each group will have one whole radish and one radish half. Radishes can be purchased from the store if no radishes are available from the garden.

Review the parts of plants and their functions: • Roots: Absorb water, store nutrients, anchor the plant in the ground and store food. • Stems: Transport water and nutrients through the plant like a straw. • Leaves: Gather sunlight for the plant to make food. • Flowers: Produces fruit and attracts pollinators. • Fruit: Contains the seeds. • Seeds: Grow new plants.

Explain to students that the vegetables we eat come from different parts of the plant, including the roots, and root vegetables grow underground.

Explain the three types of roots: • The taproot is the large main root that's longer and supports other roots. • The fibrous roots are the stringy roots. • The root hairs are the tiny structures that go between the soil and absorb water and nutrients.

Show students the different types of root vegetables you've gathered from the garden.

Ask students to share any other types of root vegetables they know. Students may say potato, but it's a tuber (thickened part of the stem).

6. Explain that they will be studying root vegetables by dissecting a radish and learning about how a root works.

Review the Anatomy of a Radish Sheet with them.

**Wrap up (5mins.):** Wind up the lesson by asking the students to discuss the benefits of eating fruits and vegetables.

#### **Home Assessment:**

Revise the work done

#### **Worksheet**

#### **Lesson Evaluation:**

- Teacher was able to accomplish all aspects of the lesson well ☐
- Teacher was not able to ..... do warm up activity ☐,
- develop lesson plan well ☐,
- do the learning activity ☐,
- do wrap up ☐,
- accomplish lesson objective ☐,
- manage time well ☐,
- manage class well ☐

**Worksheet Day**

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Topic: Root Exploration

Subject: Science

➤ **Anatomy of Radis:**

