

Daily Lesson Plan

(DLP)

Topic: Soil Temperature		Day: 2
Grade: 2-3	Lesson Name: Soil Temperature	Time :(60 Mins.)

Topic	Soil Temperature		
Weekly key words	Weather, thermometer, meteorology, etc.		
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

Objectives: ➤ The students will be able to:	➤ Learn to determine soil temperature
Teaching Resources:	4-5 soil thermometers (meat thermometers work well as a substitute) -4-5 thin wooden skewers marked at 2, 4, and 6 inches - Clipboards -Plain white paper -Pencils -Watch (or way of keeping time)
Teaching Learning Strategies	
Introduction: Oral Discussion: Activate the students' prior knowledge if they know about weather Take their responses and give feedback. Methodology: Activity: Garden Activity Before going to the garden, divide the class into four or five groups (with three-four students in each group). Give each student a clipboard with a pencil and a piece of paper. Tell them that they are going to record the temperature of the soil in different areas of the garden. To keep track of the data collected, you need the students to record their measurements in a chart. Guide students in creating the chart below (or a similar chart) on their pieces of paper. Explain that they will measure the soil temperature at different depths. Do they think the soil temperature will be warmer or cooler as they measure the temperature deeper into the ground?	

Garden Soil Temperature				
Date:				
Location	Depth 1	Temperature (°F) of Depth 1	Depth 2	Temperature (°F) of Depth 2
<i>Under the straw, next to the building, in the sun.</i>	<i>2 inches</i>	<i>60°F</i>	<i>6 inches</i>	<i>55°F</i>

Take students to the garden and demonstrate how to measure soil temperature.

Instructions:

First measure the air temperature. Using a thermometer, measure the air temperature at shoulder height. Measure the temperature at the surface of the ground. Is there any difference?

Soil Temperature:

To determine the soil temperature, use the skewer that you have marked at 2, 4 and 6 inches. Push the skewer into the ground until you reach the 2 inch mark. Remove the skewer and insert the thermometer for one minute, then remove the thermometer and quickly record the temperature. Demonstrate how to record the data on the chart. Repeat at 4 or 6 inches.

Ask each group of students to measure and record the soil temperature in at least three locations, at two depths (2, 4 or 6 inches) per location.

Help the groups identify three distinct locations for their measurements (an example of three measurement areas might include a raised bed, in a grassy area, under mulch). After the students measure the temperature in three locations, gather them together and ask each group to report their findings.

Ask students to refer to the temperature chart (above) to determine if the soil temperatures are good for planting. If the soil is warm enough, plant with your students in the garden within the next several days.

Wrap up (5mins.): Wind up the lesson by asking the students to share their understanding.

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: Soil temperature

Subject: Science

1. How can you determine soil temperature?

2. What is a thermometer?

3. What do you know about soil temperature?
