

SMART AGRICULTURE



MAURITIUS INSTITUTE OF EDUCATION under the aegis of



MINISTRY OF EDUCATION AND HUMAN RESOURCE



ACKNOWLEDGE

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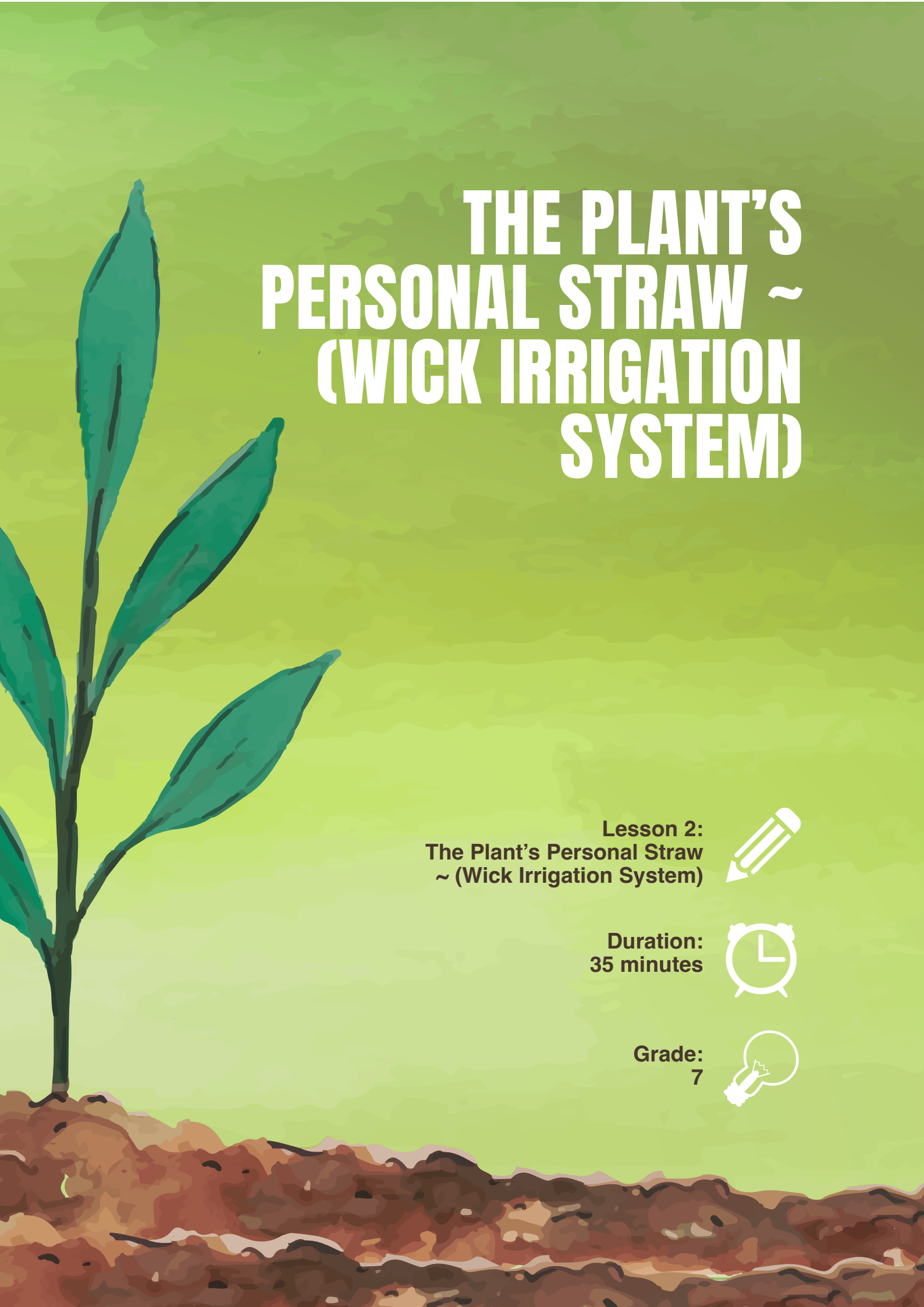
DESIGN

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THE PLANT'S PERSONAL STRAW ~ (WICK IRRIGATION SYSTEM)

Lesson 2:
The Plant's Personal Straw
~ (Wick Irrigation System)



Duration:
35 minutes



Grade:
7





Week 2

Lesson Overview

The wick method is a simple and effective way to water plants. It is important because it helps save water and gives plants the right amount of water to grow. It works by using a string or cloth to slowly move water from one place to the plant's roots. It prevents overwatering and keeps the soil from getting washed away. This method can be used in small gardens or to help water plants when there is no one at home. This lesson helps students learn basic irrigation techniques while encouraging creativity and hands-on learning.

Lesson Aims

To help learners understand the concept of simple, sustainable irrigation by creating a basic wick-based drip system using a plastic bottle, fostering practical learning about water conservation, plant care, and basic science principles.

Lesson Objectives

The objective of this lesson is to help learners understand how plants can be watered slowly and consistently using a simple wick system.

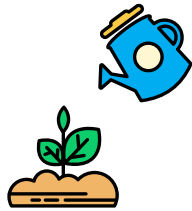
Step-by-Step Lesson Procedure

- 1 plastic bottle (2L, 5L)
- Cotton rope or thick wool string (the “wick”)
- Seeds/seedlings/cuttings (lettuce, coriander, Pak Choy, Spring Onion, mint)
- Water
- Scissors or a nail to poke a hole
- Peat Moss/soil



Week 2

Lesson Overview



1. Prepare the Water Bottle: (4 minutes)

- Cut the bottle in half (bottom part will hold water).
- Turn the top half upside-down (like a funnel).



2. Insert the Wick:(4 minutes)

- Insert the cotton rope through the opening of the bottle.
- Leave part of it hanging in the lower half (with water), and part of it goes into the soil (near the roots of the plant).



3. Add Water:(2 minutes)

- Fill the bottom part of the bottle with water.
- The wick will slowly absorb and transfer water to the plant.



4. Place the System:(10 minutes)

- Put the top half (with soil and plant) into the bottom half (with water).
- Make sure the wick touches both water and soil.
- Place it (indoor or outdoor) - Partial Sunlight



5. My Wick Irrigation Evaluation Sheet (15 minutes)

Let's go on a journey and check what you remember!








Activity Roles: Wicked Irrigation Setup


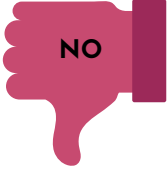

TEACHER	STUDENT
Get materials	Help collect the items
Explain activity	Listen and ask questions.
Give steps	Follow the steps.
Show example	Watch and try to understand
Help when needed	Ask for help if you don't understand
Try ideas	Ask for help if you don't understand
Check work	Look to see if it's going well
Give tips	Keep working and ask if unsure
Be safe	Listen and try to do better
End and Talk	Talk about what we did and learned

THUMBS UP OR DOWN?


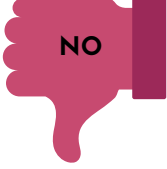

Circle one for each statement



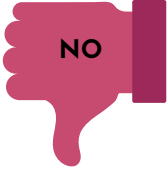

a) I made my own wick irrigation system.



b) It allowed for the watering of my plant.



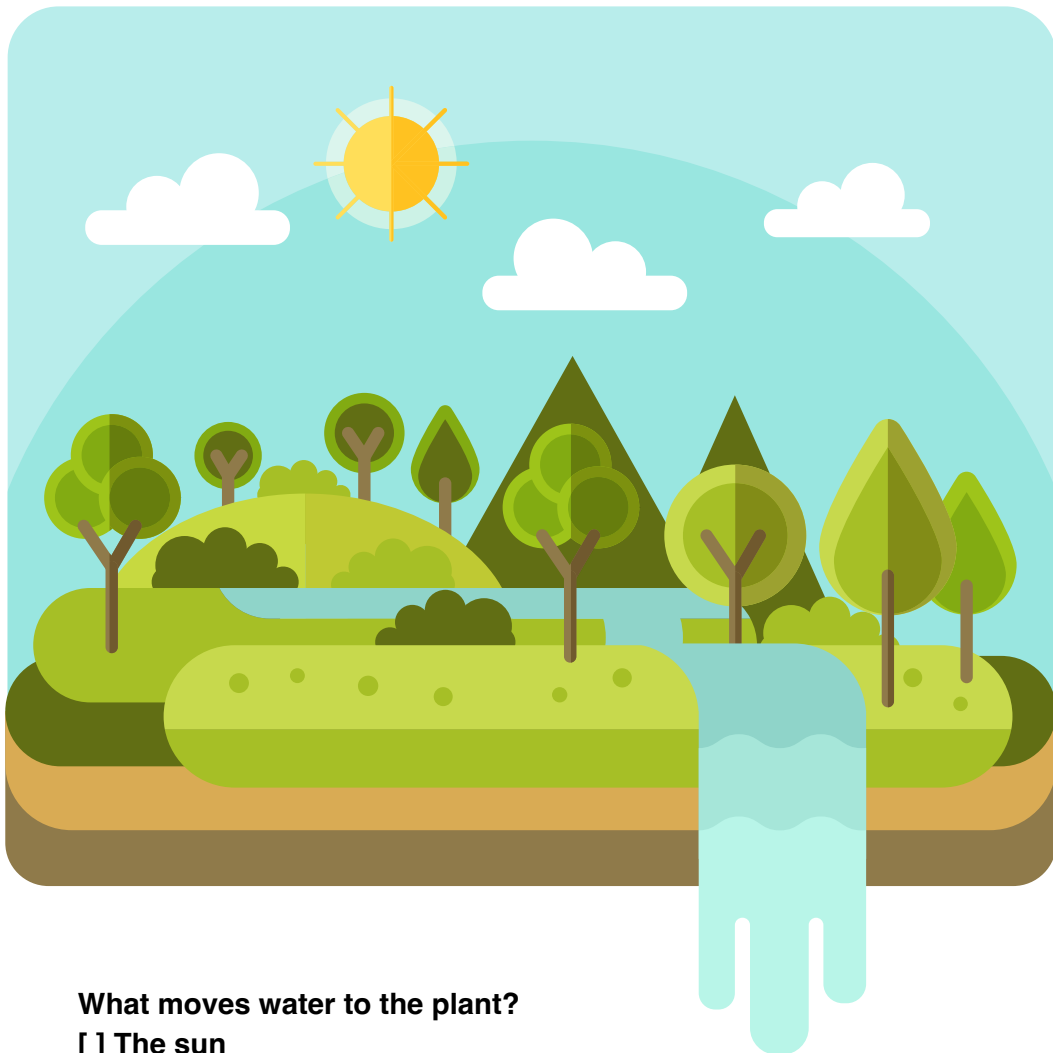
c) I liked this activity.





MY SMART CHECK!

Tick the correct answer:



What moves water to the plant?

- The sun
- The wick
- A spoon

What happens to the soil?

- It stays dry
- It becomes wet
- It disappears



Week 2

Finish Line: My Plant Art!

Draw your wick system and your plant. Show if it's growing!

**Draw your wick system and your plant.
Show if it's growing!**

Feeling Zone

Draw your face in the leaf that shows how you feel about the activity!



I didnt enjoy it.



It was okay



I loved it

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ELECTIVE



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