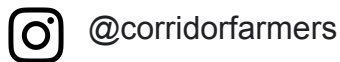
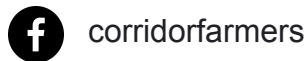




**Presents**



## **MINI HYDRO POD (Dwarf Tomato Edition)**



SCAN FOR DIGITAL INSTRUCTIONS

### **WARNINGS AND REMINDERS**

1. **Adult supervision is required for participants of age 6-8 years.**
2. **Please be advised that nutrient solutions contain chemical ingredients. Do not ingest. Wash hands thoroughly before and after handling nutrient solutions.**
3. **Learning kit contains small parts. To avoid the risk of suffocation, keep all wrappers and plastic materials away from babies, toddlers and young children.**



# ITEM LIST

IMAGE	QTY	ITEM
	1 piece	<b>Self Watering Pot</b> 1 x White pot 1 x Black net pot 1 x Cotton wick
	1 bag	<b>Peat Moss</b>
	1 bottle	<b>Nutrient Solution (A)</b> ~10ml
	1 bottle	<b>Nutrient Solution (B)</b> ~10ml
	1 bag	<b>Dwarf Tomato Seeds</b> ~10pcs
	2 pieces	<b>Mini Test Tubes</b> 2ml
	1 piece	<b>Plant Tag</b>
<b>SUPPLEMENTARY ITEMS (SELF PROVIDE)</b>		
	1 jug	<b>Water</b> ~400ml, preferably distilled water
	1 piece	<b>Plastic Spoon</b>
	1 piece	<b>Marker Pen</b>



# INSTRUCTIONS

## Learning Objectives:

Setting up a kratky hydroponics setup.

Witness germination, root growth and difference between cotyledon vs true leaves



### STEP 1:

Add 350ml of water into the white pot provided.



### STEP 2:

Measure 2ml of nutrient solution A with a mini test tube



### STEP 3:

Pour the 2ml of nutrient solution A into the pot with water. Stir well using a plastic spoon to mix evenly.



### STEP 4:

Measure 2ml of nutrient solution B with the other mini test tube



### STEP 5:

Pour the 2ml of nutrient solution B into the pot with the mixture. Stir well using a plastic spoon to mix thoroughly.



### STEP 6:

Attach the cotton wick to the net pot and add in peat moss.



### STEP 7:

Drop Dwarf Tomato seeds into peat moss.



### STEP 8:

Put the net pot onto the pot with the mixture. Pour in 50ml of water to moisten the seeds and peat moss.



### STEP 9:

Use the tag to decorate it. Observe seed germination (5-7days), root and leaf growth.



### STEP 10:

Place in an area with >6hrs of direct light. Top up water every 2-3days. Replace the water-nutrient mixture inside the white pot weekly by repeating steps 1 to 5.



# SUPPLEMENTARY DETAILS

## 1. Plant Care:

- a. Check on root development, healthy roots should be white creamy color. If roots turn yellowish brown, slimy and tangled with odor. Discharge and replant.
- b. Dwarf Tomato growth cycle takes 7-11weeks. Germination will take 5-10days.
- c. Dwarf Tomato plants need minimal pruning as it has a slow growth rate.
- d. Tomato plants can self pollinate, however to increase chances of fruiting hand pollination using a brush is encouraged.

## 2. System Care:

- a. Wash white pot thoroughly weekly to prevent fungi growth.
- b. Ensure peat moss medium covers the net pot slits entirely to prevent mosquito breeding. Check regularly for any mosquito breeding.

## 3. Excess Material Storage:

- a. Store nutrient solutions in cool, dark and dry locations. Keep out of reach from toddlers and young children.
- b. Store remaining seeds in a sealed container inside the chiller with temperature  $<5^{\circ}\text{C}$ .