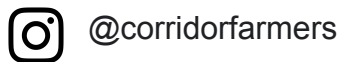
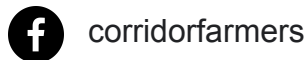




Presents



MINI HYDRO POD



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	Self Watering Pot 1 x White pot 1 x Black net pot 1 x Cotton wick
	1 bag	Leca Clay Balls
	1 bottle	Nutrient Solution (A) ~10ml
	1 bottle	Nutrient Solution (B) ~10ml
	1 bag	Kang Kong Seeds ~10pcs
	2 pieces	Mini Test Tubes 2ml
	1 piece	Plant Tag
SUPPLEMENTARY ITEMS (SELF PROVIDE)		
	1 jug	Water ~400ml, preferably distilled water
	1 piece	Plastic Spoon
	1 piece	Marker Pen



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 leca clay balls.



STEP 7:

Drop KangKong seeds into leca clay balls.



STEP 8:

Put the net pot onto the pot with the mixture. Pour in 50ml of water to moisten the seeds and leca clay balls.



STEP 9:

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



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. Kang Kong growth cycle takes 4-6weeks. Germination will take 5-7days. 2 weeks prior to harvesting, dilute or use water medium without nutrients to reduce nutrient content.
- c. Kang Kong can be harvested by cutting its stems, it can regrow from the cut stems.

2. System Care:

- a. Wash white pot thoroughly weekly to prevent fungi growth.
- b. Leca clay balls can be reused. Wash and rinse thoroughly before reusing.

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 $<5^{\circ}\text{C}$.