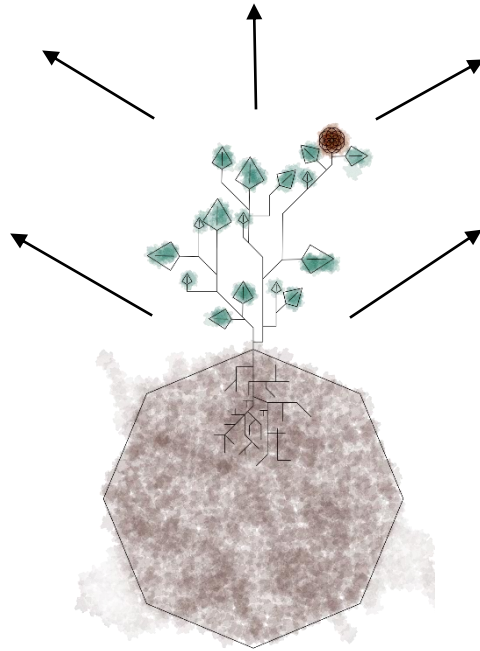


**Unit 1:**

**What are the basic needs of a plant?**

Draw and fill in the blanks.



1.  
\_\_\_\_\_

2.  
\_\_\_\_\_

3.  
\_\_\_\_\_

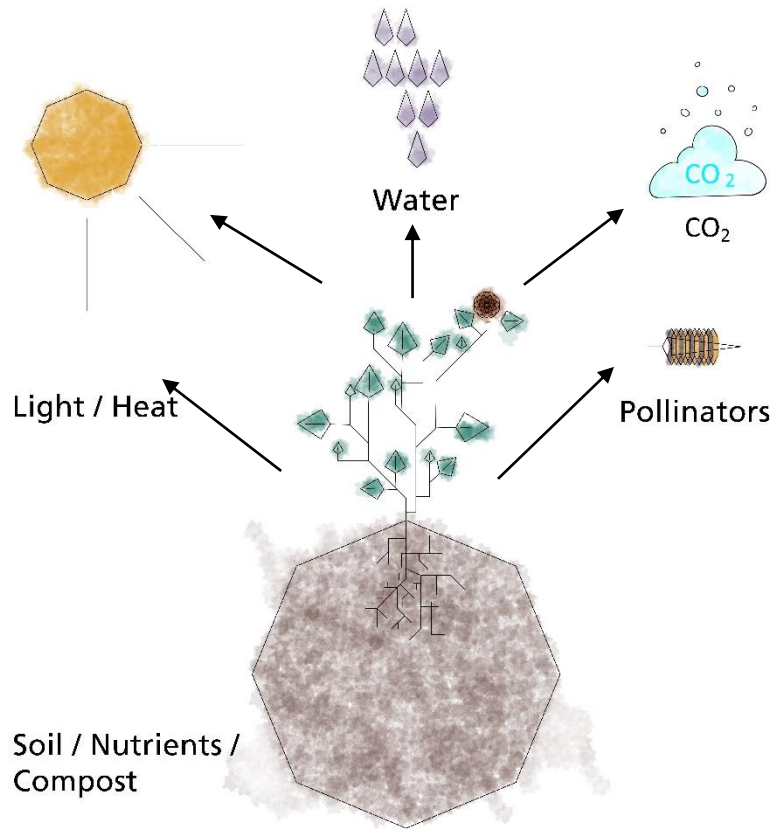
4.  
\_\_\_\_\_

5.  
\_\_\_\_\_

## What are the basic needs of a plant?

Answer sheet

Draw and fill in the blanks.



1. \_\_\_Light/ Heat\_\_\_
2. \_Soil / Nutrients / Compost\_
3. \_\_\_\_\_Water\_\_\_\_\_
4. \_\_\_\_\_CO<sub>2</sub>\_\_\_\_\_
5. \_\_\_Pollinators\_\_\_



What crops do you eat in the following seasons?

Possible answer sheet



Winter



Spring



Summer



Fall

\_\_\_\_\_Orange\_\_\_\_\_

\_\_\_\_\_Green Almond\_\_\_\_\_

\_\_\_\_\_Cherry\_\_\_\_\_

\_\_\_\_\_Pomegranate\_\_\_\_\_

\_\_\_\_\_Sweet Potatoes\_\_\_\_\_

\_\_\_\_\_Chickpea\_\_\_\_\_

\_\_\_\_\_Apricot\_\_\_\_\_

\_\_\_\_\_Olives\_\_\_\_\_

\_\_\_\_\_Cabbage\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_Okra\_\_\_\_\_

\_\_\_\_\_Fig\_\_\_\_\_

\_\_\_\_\_Radish\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_Apple\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write each crop's name next to its picture. Notice which plants prosper in winter, which prosper in summer, and which plants prosper during both.

Winter Crops

Summer Crops

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_



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\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

Write each crop's name next to its picture. Notice which plants prosper in winter, which prosper in summer, and which plants prosper during both.

Answer sheet

Winter Crops

Beet



Carrots



Green Onion



Onion



Garlic



Potatoes



Radish



Cabbage



Summer Crops

Cucumber



Okra



Bell Pepper



Red Pepper



Zucchini



Tomato



Eggplant



Green Pepper



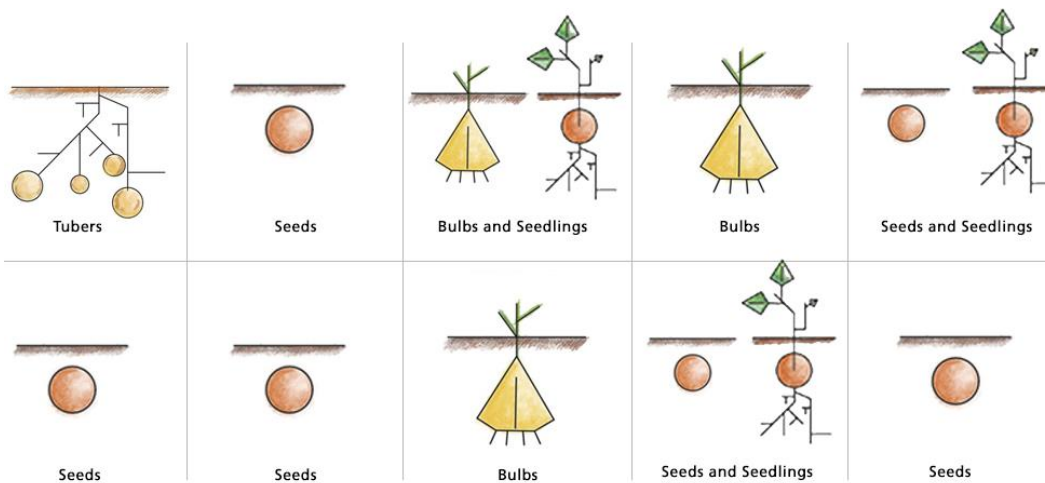
## Unit 3:

### a. Winter Crops

Cut out the images of the crops shown below and match them with their names. Following that, match each crop with its planting method, determining whether it is to be planted using a seed, bulb, tuber, or seedling. Bind the cuttings together to create your own catalogue.



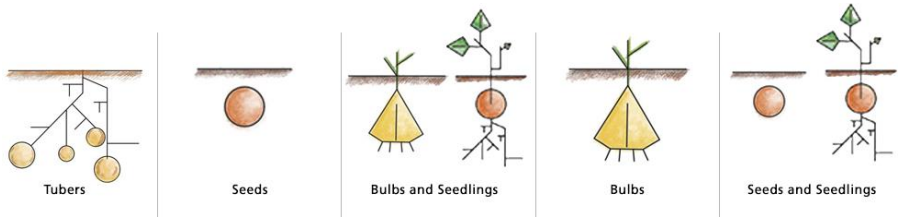
Parsley	Cauliflower	Radish	Potato	Onion
Carrot	Garlic	Cabbage	Beetroot	Green onion



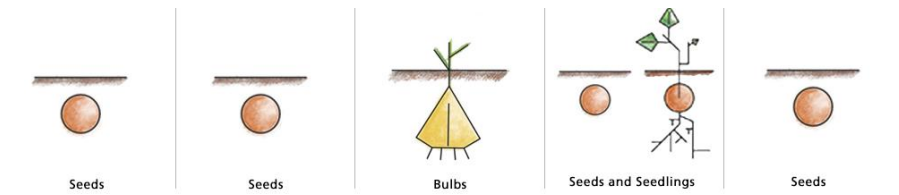
**a. Winter Crops**



<b>Potato</b>	<b>Carrot</b>	<b>Green onion</b>	<b>Garlic</b>	<b>Cabbage</b>
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<b>Beetroot</b>	<b>Radish</b>	<b>Onion</b>	<b>Cauliflower</b>	<b>Parsley</b>
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Through a vote, decide which crops you will be planting in your winter garden:

									
Carrot	Green Onion	Beetroot	Potato	Radish	Onion	Garlic	Cauliflower	Cabbage	Parsley

Crops to be planted:

1. \_\_\_\_\_

2. \_\_\_\_\_











3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Possible answer sheet

Through a vote, decide which crops you will be planting in your winter garden:

									
Carrot	Green Onion	Beetroot	Potato	Radish	Onion	Garlic	Cauliflower	Cabbage	Parsley
IIII I		IIII III		III	IIII I		I	III	IIII

Crops to be planted:

1.      Parsley                     

2.      Carrot                     

3.      Onion                     

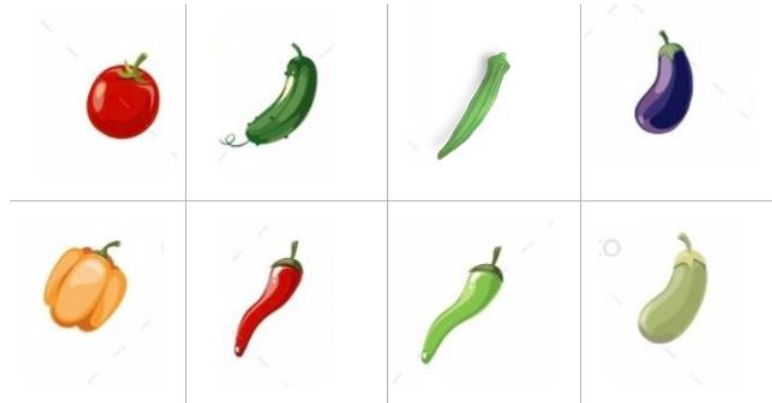
4.      Beetroot                     

5.

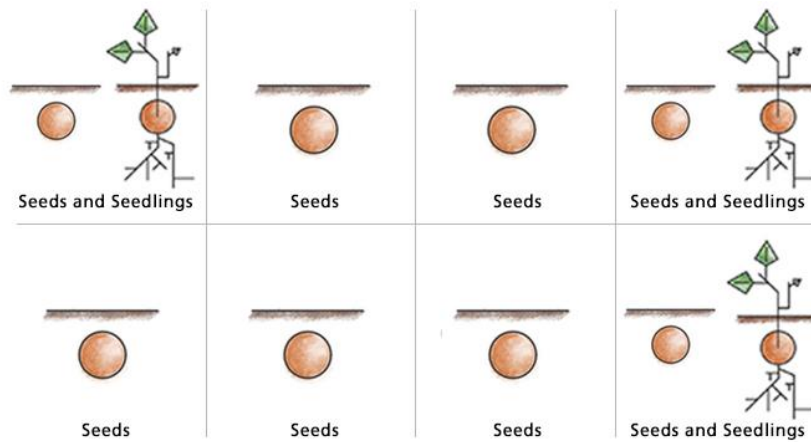
## Unit 3:

### b. Summer Crops

Cut out the images of the crops shown below and match them with their names. Following that, match each crop with its planting method, determining whether it is to be planted using a seed, bulb, tuber, or seedling. Bind the cuttings together to create your own catalogue.

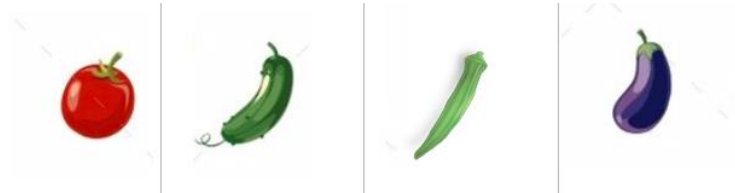


<b>Cucumber</b>	<b>Zucchini</b>	<b>Red Pepper</b>	<b>Okra</b>
<b>Tomato</b>	<b>Eggplant</b>	<b>Green Pepper</b>	<b>Bell Pepper</b>

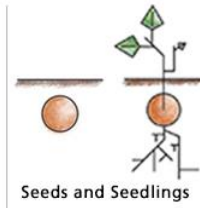


**b. Summer Crops**

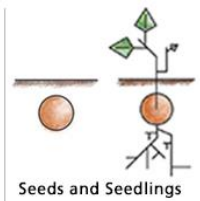
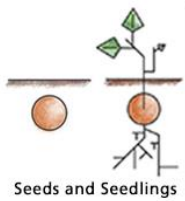
**Answer sheet**











<b>Tomato</b>	<b>Cucumber</b>	<b>Okra</b>	<b>Eggplant</b>
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<b>Bell Pepper</b>	<b>Red Pepper</b>	<b>Green Pepper</b>	<b>Zucchini</b>
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Through a vote, decide which crops you will be planting in your summer garden:

							
Tomato	Cucumber	Okra	Eggplant	Green Pepper	Zucchini	Red Pepper	Bell Pepper

Crops to be planted:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_



- Develop a layout plan of the garden identifying the plants to be included in each bed / pot / area.

Instructions:

List all the crops you want to plant in each planting bed / pot / area:

Planting bed

Bed no.:

Size:

Planting method:

Selected crops to be planted, and their spacing:

(obtain spacing from seed packet or internet search)

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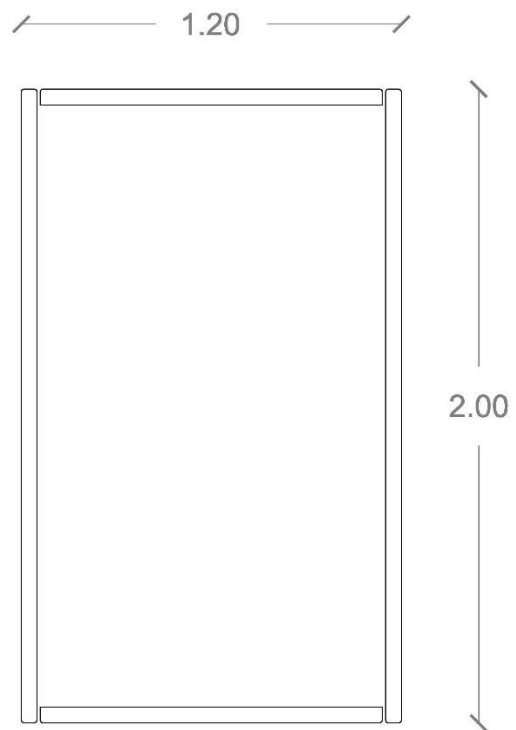
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- Develop a layout plan of the garden identifying the plants to be included in each bed/ pot/ area.

Possible answer sheet

Instructions:

List all the crops you want to plant in each planting bed / pot / area:

Planting bed

Bed no.: 1

Size: 1.2 x 2 m

Planting method: Seedlings

Selected crops to be planted, and their spacing:

\_\_\_\_ 4 Bell peppers (Spacing = 0.45 m)\_\_\_\_

\_\_\_\_ 12 Carrots (Spacing = 0.3 m)\_\_\_\_

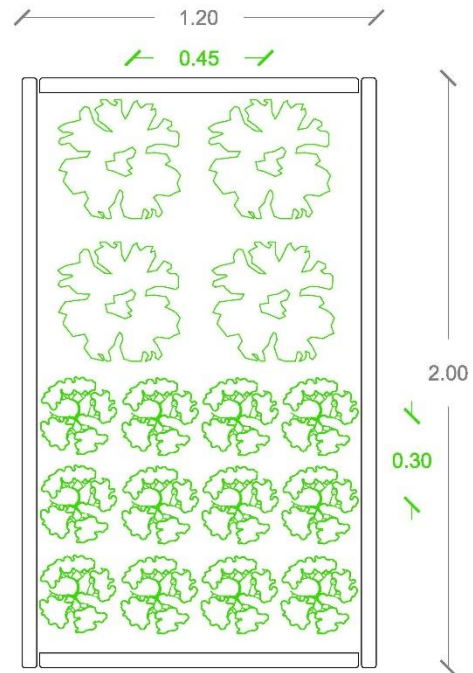
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**(This activity depends on the sizes of the planting beds available in the school)**



## **Unit 5:**

Divide the class into four groups. Assign all the tasks to be carried out during the week to the groups. Make sure that the tasks rotate between all groups. Hang the final schedules in the classroom so that each group would know their tasks for the upcoming week.

Group formation table:

	Group A	Group B	Group C	Group D
Student name				

**Possible answer sheet**

Divide the class into four groups. Assign all the tasks to be carried out during the week to the groups. Make sure that the tasks rotate between all groups. Hang the final schedules in the classroom so that each group would know their tasks for the upcoming week.

Group formation table:

	Group A	Group B	Group C	Group D
Student name	Nour	Tala	Farah	Dina
	Samar	Reem	Riham	Sarah
	Rama	Shereen	Zaina	Randa

**Care schedule template:**

	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Group A							
Group B							
Group C							
Group etc.							

**Care schedule template:**

Possible answer sheet

Assign all the tasks to be carried out during the week to the groups.

Make sure that the tasks rotate between all groups. Hang the final schedules in the classroom so that each group would know their tasks for the upcoming week.

	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12				
Group A	Watering	Weeding	Watering	Raking	Checking for pests	Watering	Trimming and Pruning	Weeding	Watering	Raking	
Group B	Weeding	Watering	Trimming and Pruning	Checking for pests	Watering	Raking	Weeding	Watering	Trimming and Pruning	Checking for pests	
Group C	Watering	Raking	Checking for pests	Watering	Trimming and Pruning	Weeding	Watering	Raking	Checking for pests	Watering	Trimming and Pruning
Group D	Checking for pests	Watering	Raking	Weeding	Watering	Trimming and Pruning	Checking for pests	Watering	Raking	Weeding	



Instructions:

Hang this table in the classroom. Each group is to fill in the table weekly, documenting which planting bed / pot / area they have worked on, and what tasks they have carried out.

**Possible answer sheet**

	Week 6		Week 7		Week 8		Week 9		Week 10		Week 11		Week 12	
	Group	Progress	Group	Progress	Group	Progress	Group	Progress	Group	Progress	Group	Progress	Group	Progress
<b>Bed 1</b>	A	planted	C	Watered and weeded	B	Watered and raked	E	Checked for pests and watered	D	Trimmed and pruned	A	Watered	C	Harvested
<b>Bed 2</b>	D	planted	B	Watered and weeded	C	Watered and raked	A	Checked for pests and watered	E	Trimmed and pruned	D	Watered	B	Harvested
<b>Bed 3</b>	B	planted	A	Watered and weeded	E	Watered and raked	C	Checked for pests and watered	A	Trimmed and pruned	B	Watered	D	Harvested
<b>Bed 4</b>	C	planted	D	Watered and weeded	A	Watered and raked	B	Checked for pests and watered	C	Trimmed and pruned	C	Watered	E	Harvested
<b>Bed 5</b>	E	planted	E	Watered and weeded	D	Watered and raked	D	Checked for pests and watered	B	Trimmed and pruned	E	Watered	A	Harvested

Log template:

Take notes documenting the different growth phases of each plant:

<b>Plant Name:</b>		<b>Bed Number:</b>
<b>Week</b>	<b>Comments</b>	

Possible answer sheet

Log template:

The students will monitor, track, and document the growth of the plants and write their observations in the log – what growth stages the plants are going through, weekly / biweekly documentation through pictures and reports, when are they germinating / flowering / fruiting

<b>Plant Name: Cucumber No. 1</b>		<b>Bed Number: 3</b>
<b>Week</b>	<b>Comments</b>	
<i>6</i>	<i>Seeds successfully sprouted.</i>	
<i>7</i>	<i>Seedling produced first true leaf, and reached 12 cm in height.</i>	
<i>11</i>	<i>Plant produced first flower / number of flowers</i>	
<i>... etc.</i>	<i>Plant produced first fruit / number of fruits</i>	





## Composting

Example




What is the waste generated from household and garden activities? Write each one of them in a box.

Uncooked fruits and vegetables scraps	Paper and cardboard
Cooked food	Nut peel
Glass containers	Dry and old bread
Dry leaves	Bones
Plastic containers	Tea bags
Metal waste	Mowed grass



Example

Cut the materials you mentioned earlier and arrange them in the following table.

<b>Substances that should not be added to the Compost</b> 	<b>Green materials</b> 	<b>Brows or dry materials</b> 
Bones	Uncooked fruits and vegetables scrapes (except for onion garlic and citrus peels)	Nut shells
Cooked food	Tea bags	Dry and old bread
Plastic containers	Mowed grass	Paper and cardboard
Metal waste		Dry leafs
Glass containers		