

Lesson Plan 1
Class – VIII
Subject: Science
Topic: crop production

KPI DEFINITION ADDRESSED TO THE LESSON PLAN

KPI 2 To improve the performance of students in applying the learned concepts to day-to-day life. -
KPI 3- To improve the analytical skills of students like identification of specimen ,slide odour of chemicals, tools used in crop production

KNOWLEDGE	UNDERSTANDING	APPLICATION	ANALYSIS	SYNTYHSIS	EVALUATION
S-1 B-1	S-3,7,8 B-4	S-2,4 B-2	S-4 B-2,3	S-5 B-5	B-6

Brief Description of the lesson:- This chapter include crop , types of crops, detail description of crop production like preparation of soil ,tools used in preparation, etc. detail explanation of how we can increases crop production like hybridization ,nitrogen cycle, etc . and last topic is food from animals in which apiculture, sericulture milch animals and pisciculture.

UN Sustainable Goals to be achieved (if any): zero Hunger,

Objectives:

I - Specific Objectives

Students are enable to :-

- 1) Define crop and also understand terms agriculture, horticulture (knowledge)
- 2) Categorize a steps of crop production and tools used in crop production. (Comparing-U) **KPI2**
- 3) **Understand the methods of crop production step by step with example. (understand)KPI 3**
- 4) Differentiate between rabi and kharif, manure and fertilizer, . (Comparing-U) **KPI 2**

- 5) Exemplify the daily life applications of crop production (application) **KPI2**
- 6) What are the ways of increasing crop production.(evaluate)
- 7) Understand and corelate nitrogen cycle ,intercropping and mixed cropping.(understanding)
- 8) Other types of farming like apiculture, pisciculture.(understanding)

II - Behavioral Objectives

To enable the students to-

- 1) Understand how crop production depends on season.(knowledge)
- 2) Utilize which tools is used in tilling sowing seed irrigation harvesting etc., what are the methods adapted in different streps . **KPI -2(application)**
- 3) Differentiate modern method as well as old methods. **KPI -2(Analysis)**
- 4) Describe the Importance of tilling during grading at home . **KPI -2(understand)**
- 5) Make kitchen garden. (Create)

Process / Activities

Activity (to introduce the lesson)

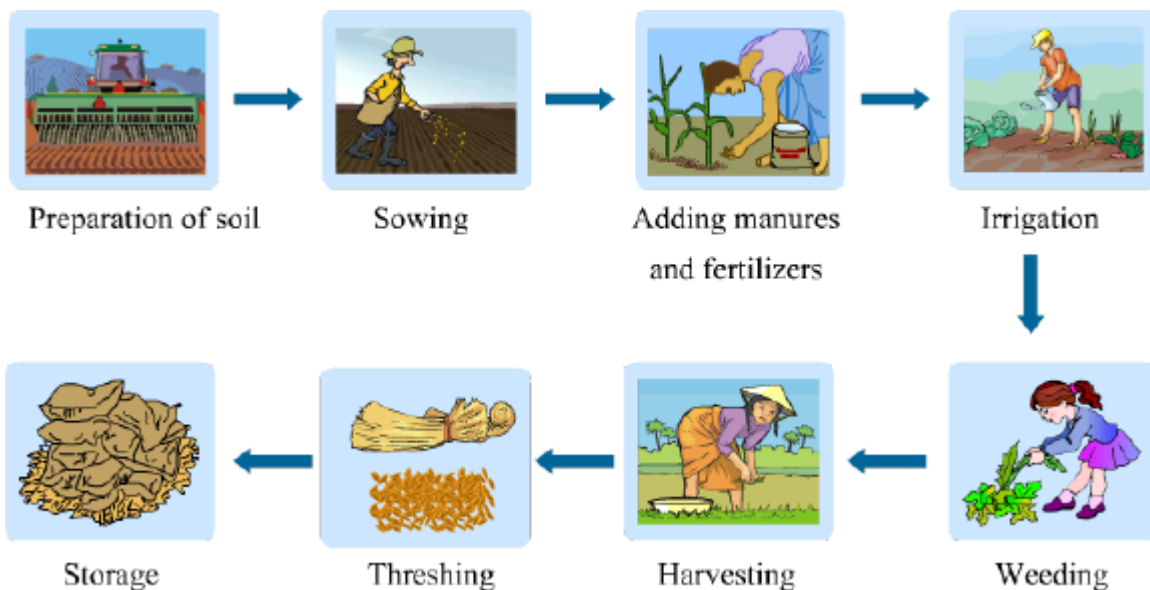
Warm up activity: 1. Identification of crops

Teacher will write examples of some cereals, pulses, root crop, tuber crops, fibre crops etc. on black board and ask students in which season this crop are grown.

Probing questions:

1. In which season this crop are grown?
2. Identify rabi and kharif crops?

Activity:-2 To show chart of steps of crop production. **KPI-2**



Probing questions:

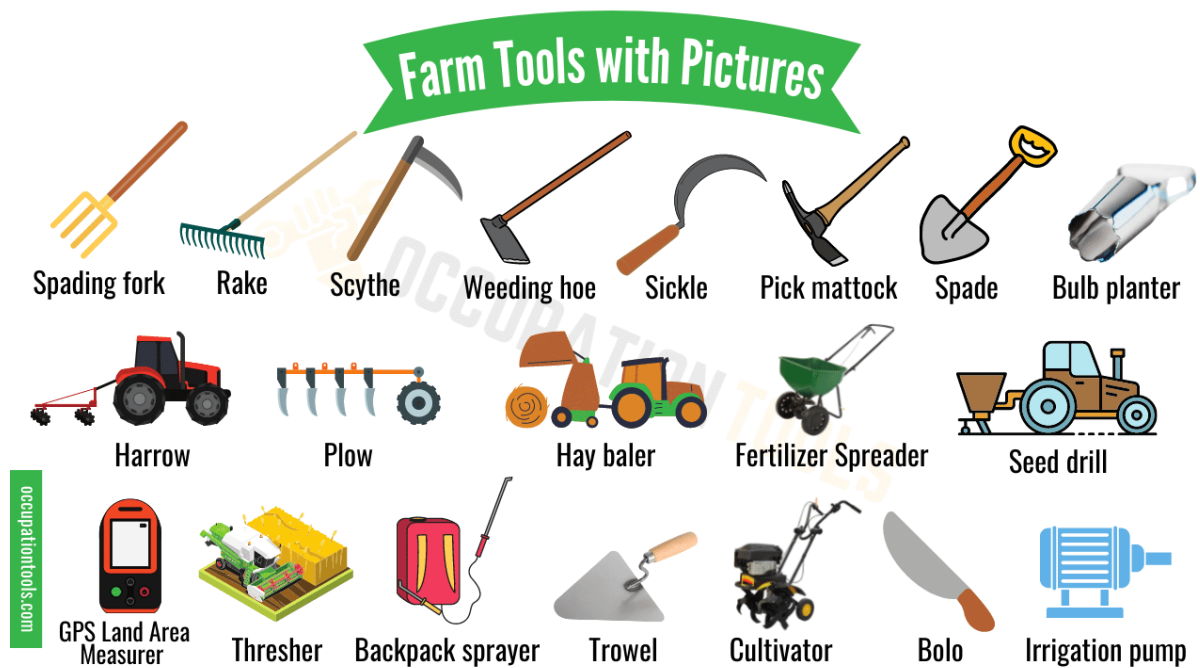
How they do first step?

What is benefits of following first step?

Can we skip first step?

In the same way teacher will ask question related to all steps

Activity -3 **To show the table and ask students about uses of tools.** KPI-2



Activity -4 to differentiate healthy and unhealthy seeds.



Activity :5 **Gardening** KPI-2

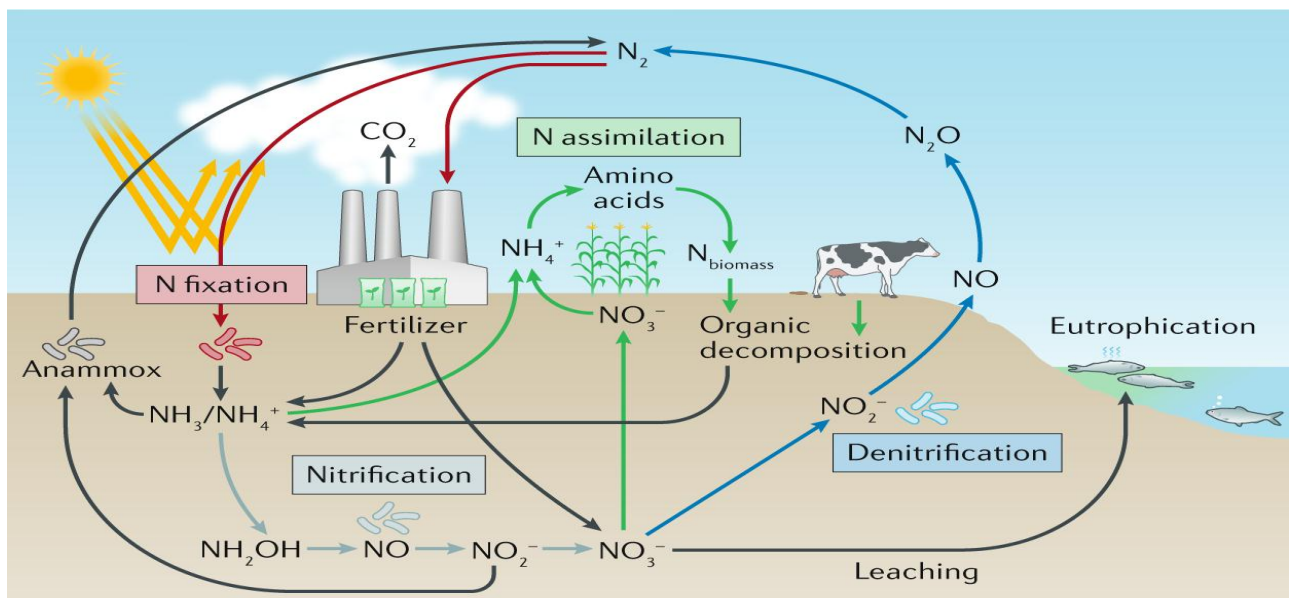
Teacher will make 5-6 groups and tell them to grow garlic , ginger, bottle guard coriander seeds and other crops and utilize there your knowledge **2**.

Probing questions:

1. What is first step you follow?
2. How you select seeds?
3. How you check and supply water?
4. What extra nutrients you supply to the crops.
5. What environmental factors affect your crop?

In the same way teacher will explain other steps one by one by showing PPT.

By showing diagram of nitrogen cycle teacher will explain nitrogen cycle crop rotation and intercropping.



Now teacher will explain food from animals by Ppt.

Digital content:-

<https://youtu.be/xR2DPnyLEE0>

<https://www.youtube.com/live/dafTqEtRBus?feature=share>

Expected Learning Outcomes

Students will be able to

- **analysis** the two types of crops with examples—kharif and rabi.

- **understand** the different agricultural activities undertaken by farmers to cultivate crops.
- **understand** and **describe** the process of tilling of soil.
- **Apply** the process of sowing.
- **classify** the function of **broadcasting** a seed drill
- **recognize** the process of irrigation with respect to the type of crop, weather conditions and type of soil.
- **describe** the different traditional methods of irrigation.
- classify the differences between manures and fertilizers.
- **analyse** the process of nitrogen fixation.
- **evaluate** various ways to control weed.
- **evaluate** the uses of pesticides.
- **interpret** the process of different ways harvesting
- **describe** the process of storage of agricultural produce—cold storage and dry storage.
- **memories** different milk products that are used as food.
- classify poultry farming, pisciculture, apiculture

Assessment Activity: Class Test ,MCQS Test

