

MERUVAMBAYI. M. U. P. SCHOOL
WORKSHEET – 1.8

Reaping Gold From Soil

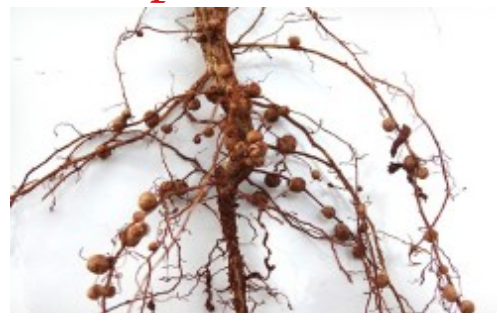
30/07/20
VII Std



Welcome to the World of Science

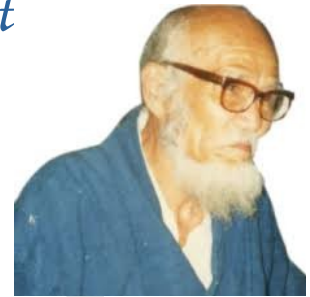


In our previous class we have discussed about some of the methods followed by farmers to ensure maximum diversity in agriculture, like intercrop, crop rotation, cultivation of leguminous plants etc.



Activity 1

Identify the person and write a note about him.



Masanobu Fukuoka is a Researcher in Organic Farming, in Japan. He began to practice and experiment with new techniques on organic farming. He says, for man's survival we should return to nature. Our aim should be to make land cultivable rather than a desert.

Activity 2

Classify the given fertilizers into bio fertilizers and chemical fertilizers.

Poultry droppings, Super phosphate, factamfos, bone meal, Cow dung, Rock phosphate, Compost manure, Goat droppings, Urea, Muriate of potash.

Bio fertilizers	Chemical fertilizers
<i>Poultry droppings</i> <i>Cow dung</i> <i>Bone meal</i> <i>Compost manure</i> <i>Goat droppings</i>	<i>Super phosphate</i> <i>Factamfos</i> <i>Rock phosphate</i> <i>Urea</i> <i>Muriate of potash</i>

Activity 3

The features of bio fertilizers and chemical fertilizers are given below. Write down the type of fertilizers you feel good. Explain the reason.

Bio fertilizers	Chemical fertilizers
Not harmful the soil. Can be prepared at home. Required large in quantity. Mixes slowly with soil. Cannot be provided as a specific salt.	Destroys soil composition. Can be prepared only on industrial basis. Required less in quantity. Mixes quickly with soil. Can be provided as a specific salt.

The both Bio fertilizers and Chemical fertilizers have some merits and demerits. But Bio fertilizers will not harm the soil and we can prepare at home. So in my opinion Bio fertilizers are good.

Activity 4

a. Prepare any one of the bio-pesticides and write down the preparation.

Tobacco decoction: *Cut 1kg tobacco into small pieces. Soak them in 15 litre of water for one day. Filter this and dissolve 100 g scarped bar soap in it by stirring well. Tobacco pesticides is ready. Dilute this by adding double the quantity of water and then spray on plants.*

b. Suppose you are going to conduct an interview with a farmer, for collecting information on agriculture.

Prepare a questionnaire to conduct the same.

- How are pests that destroy crops eliminated?*
- Are there alternate methods for pest control?*
- Drip irrigation is one of the methods of irrigation. Will you please explain?*

- *From where will we get the seeds for agriculture?*
- *Which type of manure will you take to agriculture?*
- *What are the bio-pesticides do you use?*



c. Which are the crops do we cultivate other than food crops?

*Floriculture, Tea plantation,
Ornamental plant cultivation,
Cotton, Jute, Coir etc.*



Go through the worksheet and prepare well. Do all the activities given and send to me.....

*With Love
Your Teacher*