



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI – 110034

SUBJECT:-Science

Class VII - CHAPTER:-NUTRITION IN PLANTS

GUIDELINES:-

Dear Students

- Refer to the following content of the chapter: **NUTRITION IN PLANTS.**
- These notes will help you understand the concept of the lesson and complete the assignment that follows, which will be graded on submission.
- Do the assignment questions in the Science notebook
- You may follow the given link to refer to Class 7 Science NCERT.
<http://www.ncert.nic.in/textbook/textbook.htm?gesc1=1-19>

SUB-TOPICS:-

How are nutrients replenished in the soil?



Have you seen farmers spreading manure or fertilisers in the fields, or gardeners using them in lawns or in pots? Do you know why this is done?

- We know that plants continuously take nutrients from the soil in order to synthesize food. As a result of this, the amount of nutrients in the soil decreases.
- So, nutrients in the soil are replenished by :

1. By adding fertilisers and manures.



- Fertilisers and manures contain plants nutrients and minerals like nitrogen, phosphorus and potassium.

Another way to replenish soil is to grow:

2. Growing Leguminous plants

(For example- moongs, gram, peas, pulses, beans, etc.) in the soil.

- The bacterium called ***Rhizobium*** can take atmospheric nitrogen and convert it into a soluble form.
- But *Rhizobium* cannot make its own food. So it lives in the roots of gram, peas, moong, beans and other legumes and provides them with nitrogen. In return, plants provide food and shelter to the bacteria.
- Thus, leguminous plants and bacteria have a **symbiotic relationship** here.

Now, click on the links given below to watch the videos based on Rhizobium and replenishment of nutrients in the soil:

<https://www.youtube.com/watch?v=z-x12sUNVYg>

<https://www.youtube.com/watch?v=EtCa9m3prEM>

Assignment:

- Q1. Why do we need to replenish nutrients in the soil?
- Q2. How does *Rhizobium* benefit a farmer?
- Q3. Why does a *Rhizobium* have to live in the roots of legumes?
- Q4. What would happen to soil fertility if we stop adding fertilizers and manure?
- Q5. State three examples of legumes.