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STUDY MATERIAL SCIENCE CLASS-VII

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▶ Nutrition in Plants

Replenishment of Nutrients in Soil:

- ▶ Crops require a lot of nitrogen to make proteins. After the harvest, the soil becomes deficient in nitrogen.
- ▶ Plants cannot use the nitrogen gas available in the atmosphere directly.
- ▶ The action of certain bacteria can convert this nitrogen into a form readily used by plants.
- ▶ Rhizobium bacteria live in the root nodules of leguminous plants.
- ▶ These bacteria take nitrogen gas from the atmosphere and convert it into water-soluble nitrogen compounds making it available to the leguminous plants for their growth.
- ▶ In return, leguminous plants provide food and shelter to the bacteria as Rhizobium cannot prepare its food.

They, thus have a symbiotic relationship. This association is very important for the farmers, as they do not need to add nitrogen fertilisers to the soil in which leguminous plants are grown