

Science Worksheet Class VII  
Nutrition in Plants

1. Fill in the blanks:
  - a. Green plants are called \_\_\_\_\_ since they synthesize their own food.
  - b. The foods synthesized by the plants are stored as \_\_\_\_\_
  - c. In photosynthesis solar energy is captured by the pigment called \_\_\_\_\_
  - d. During photosynthesis plants take in \_\_\_\_\_ and release \_\_\_\_\_.
  - e. Rhizobium bacteria live in the root nodules of \_\_\_\_\_.
2. Name the following:
  - a. A parasitic plant with yellow, slender, tubular stem
  - b. A plant that has both autotrophic and heterotrophic mode of nutrition
  - c. The pores through which leaves exchange gases
  - d. A plant that has both autotrophic as well as heterotrophic mode of nutrition
  - e. An organism that live in an association of an alga and a fungus
  - f. Amarbel is an example of
  - g. The plant which traps and feeds on insects is
3. What are nutrients?
4. Why is mistletoe called partial parasite?
5. How humans and animals are directly or indirectly dependent on plants?
6. Whether food is made in all parts of a plant or only in certain parts?
7. How do plants obtain the raw materials from the surroundings?
8. Differentiate between parasitic and insectivorous plants.
9. How do the raw materials transport them to the food factories of the plants?
10. Write an experiment to show that carbon dioxide is necessary for photosynthesis.
11. What are the main requirements of photosynthesis?
12. Explain the process of Photosynthesis.
13. How would you test the presence of starch on leaves?
14. Algae and fungi live together in lichens:
  - a. What is this association called?
  - b. What value can we learn from this association in nature?

15. Why leaves are called the food factories of plants? Explain
16. Why sun is called the ultimate source of energy for all living organisms?
17. Why algae are green in colour?
18. What are the main components presents in carbohydrates?
19. From where do the plants obtain nitrogen?
20. What is parasitic nutrition? Name any two plant parasites.
21. How Pitcher plants get their nutrition?
22. Why does the pitcher plant feed on insects though it is green?
23. What is saprotrophic nutrition? What is the mode of nutrition in fungi?
24. All plants are autotrophic in nature. Do you agree? justify your answer with suitable example.
25. How can you say photosynthesis maintain balance between oxygen and carbon dioxide in the atmosphere?