



Subject: Science

Class: 4

Lesson: Plants- the Producers

Topic: Food storage in plants, Are all leaves green?

ANSWER WORKSHEET – 3

Answer the following questions in detail:-

1. Why are the leaves of some plants not green in colour?

Ans: Green leaves can be found everywhere but there are other leaves colours too- like red, purple, yellow or orange. Colourful leaves we get to see because of different types of substance present in the leaves. High concentration of chlorophyll in leaves gives it the green colour. Leaves of other colours also contain chlorophyll, but they are hidden under the non- green substance. They can also prepare food for the plant.

2. What happens to the food prepared by plants?

Ans: Plants use the food to grow and live. The food prepared by the plants in their leaves through photosynthesis is transported to all parts of the plant in the form of solution. The excess food is stored in the form of starch in different parts of the plants. This stored food is used by the plants when photosynthesis does not take place when there is less sunlight. They store food in roots, stems, leaves, fruits and seeds.

3. With the help of an experiment prove that green leaves contain starch.

Ans: Yes, green leaves contain starch. This can be proved through an experiment. First take a green leaf and put it in boiling water for a few minutes. Then take out the leaf and put it in a test tube containing alcohol. After that, place the test tube in the beaker containing boiling water for a few minutes. Then take out the leaf and wash it in cold water. Now add a few drops of iodine on the leaf. After sometime, we will notice that the leaf has turned blue-black. As we know that when iodine is added to starch, it turns blue-black, so this proves that the green leaf contains starch.

4. Why do plants store food?

Ans: Plants store food for lots of different reasons. Stored food helps them to survive, grow and reproduce.

Storing the food helps them to use it in winter and survive because there is very little sunlight available and so the photosynthesis is less. For example, carrots store food in its roots and live on it all winter and in summers a new plant grows from these roots.

Good food storage is very important for a plant. Without this, their leaves would not be able to photosynthesis and would not be able to produce any food.