



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

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Term: First

Date: 02.07.20

Subject: Science

Class: 4

Lesson: Plants- the Producers

Topic: Parts of leaf, Stomata

ANSWER WORKSHEET – 1

Answer the following questions in detail:-

1. Why plants are called producers?

Ans: Food is essential for us to live. Most of the food we eat comes from plants. Plants themselves need food to live. Green plants make their own food, so they are called producers. It is the leaves that make food for plants. Leaves are green in colour due to the presence of a natural green substance called chlorophyll. Chlorophyll helps plants to make their food.

2. What are stomata and its function?

Ans: There are tiny holes on the underside of the leaf. These pores are called stomata. The function of the stomata is that, it helps the plant to expel the excess water out from the leaves in the form of water vapour. Based on the weather conditions, it opens or closes its pores to maintain the balance. They also allow the air to enter or leave the leaf, so they help the plant to breathe.

3. Describe the different parts of a leaf.

Ans: The broad, flat part of a leaf is called lamina or leaf blade. There are many tube-like structures on the leaf called veins. The main thick vein running through the middle of the leaf is called the midrib. The veins branching out from the midrib are called side veins. The tip of the leaf is called the leaf apex. The part of the leaf that attaches it to the stem or branch is called the leaf stalk.

4. How can we prove that there are tiny holes in the leaves called stomata?

Ans: We can prove that there are tiny holes in the leaves with an experiment. Take a thick leaf and place it in a glass bowl filled with water. Leave it in sunlight for a few hours. Observe carefully. We will notice lots of tiny bubbles that have been formed on the leaf and on the surrounding edges of the glass bowl. The bubbles we see are oxygen. Leaves take in carbon dioxide and through the process of photosynthesis they create food for the plant. This proves that there are tiny holes in the leaves called stomata through which the plants breathe.

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