

## Keywords








chlorophyll – green substance in the leaves

stomata – small pores in the leaf

photosynthesis – food-making process in plants



## RECAP ZONE

-  Plants make food in their leaves.
-  The process of food making in plants is called photosynthesis.
-  Leaves are known as food factories of a plant.
-  The tiny holes on the lower surface of a leaf are called stomata.
-  Stomata helps in exchange of gases.
-  All living things depend on each other.
-  There should be a balance in nature for the survival of all living beings.



## Review Zone

A. Tick mark (✓) the correct answer.

1. Which gas do plants give out during photosynthesis?  
(a) Hydrogen  (b) Nitrogen  (c) Oxygen
2. Plants make food in the form of—  
(a) proteins  (b) starch  (c) vitamins
3. The flat part of a leaf is called the—  
(a) main vein  (b) petiole  (c) leaf blade
4. Which one is a non-green plant?  
(a) Neem  (b) Rose  (c) Mushroom
5. The source of all energy on the earth is the—  
(a) Sun  (b) Moon  (c) Stars

B. Fill in the blanks with the words given in the brackets.

1. Plants make their food in the ..... (leaves / roots).
2. During photosynthesis, plants gives out ..... (oxygen / carbon dioxide).
3. Plants make their food during ..... (the day / at night).
4. The ..... (petiole / main vein) attaches a leaf to its stem.
5. The cactus plant does not have ..... (stems / leaves).



**C.** Write 'True' or 'False'.

1. Plants do not make food at night. ....
2. The flat surface of a leaf is called the leaf blade. ....
3. Cabbage and spinach store their food in the leaves. ....
4. The cactus plant makes food in its leaves. ....
5. Animals breathe out carbon dioxide. ....

**D.** Write the name of the following:

1. It gives green colour to a leaf. ....
2. These are tiny holes on leaves. ....
3. This plant grows in the deserts. ....
4. This is a non-green plant. ....
5. This plant has red leaves. ....

**E.** Answer the following questions.

1. What is photosynthesis?
2. Why are leaves known as the 'food factories' of a plant?
3. What is the main function of stomata?
4. Why can mushrooms and moulds not make their food?
5. What would happen if there is a sudden increase in the number of plants?

**HOTS**

1. Yellow leaves cannot make food. Why?
2. Fish live longer in aquariums with green plants than those without plants. Why?



**Creative Zone**

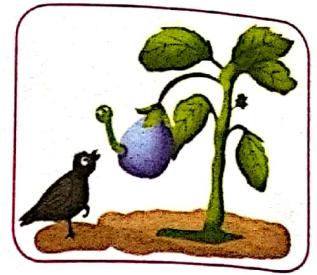
**A.** Puzzle

If you colour all the stars (\*), you will get the name of a plant that makes food in its stems.

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**B. Food Chain in Your Kitchen Garden**

Go to your Kitchen Garden and look for various plants and animals there. You will find a food chain if you watch carefully. Draw the food chain that you have identified in your kitchen garden.



**C. Test for Starch**

Test the following food items for starch using drop of iodine solution for each:

bread, sugar, boiled rice, a slice of potato and grape juice.



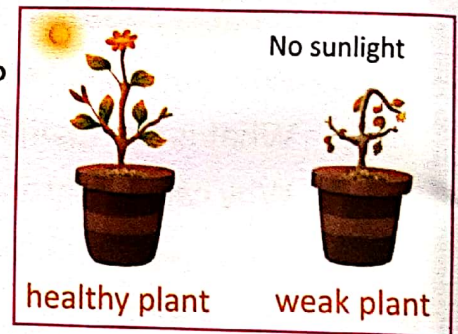
**D. A Wax Leaf Transfer**

Rub one side of a leaf with a wax crayon in matching colour. Colour the entire leaf. Place the leaf with the crayon side down on a paper and cover the leaf with another sheet of paper. Press with a hot iron. The image of the leaf comes on the paper.

**E. Put a baby plant in a dark cupboard. Leave it there for about a week. Look at it. What do you observe?**

You will find that it becomes yellow and very weak. Why?

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.....  
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**Values to Learn**

Make a Gift Wrapping Sheet.

- \* Take leaves of different shapes and sizes.
- \* Colour one side of it with water colour.
- \* Press the coloured side on chart paper of any colour.
- \* Take different leaves of various sizes. Dip them in different colours and press one by one on the chart paper.
- \* Your beautiful gift wrapping sheet is ready.



gift wrapping sheet