

CHAPTER – 5

SEEDS AND SEEDS

Page No 42:

Question Discuss:

- What things are soaked before cooking in your house? Why?
- What things do you eat after sprouting? How are they sprouted? How much time does it take?
- Has the doctor or someone you know ever told you to eat sprouts? Why?

Answer:

- Few things that are soaked before cooking in my house are beans, pulses, chick peas and lentils.

Soaking is done because:

- (i) It softens the hard food substance.
- (ii) It helps in sprout formation.

Disclaimer: The first part of this question aims to encourage children to be creative to quote examples of food items based on their own observations. The answer for the same can vary from one student to another.

- **Disclaimer:** The purpose of this question is to make the students participate in day-to-day activities, based upon which they can make logical assumptions. Considering the sustenance of this process of participation the answer to this question has not been provided.
- Yes, my mother says that everyone should add sprouts in their diet. This is because sprouts have excellent nutritional value. **Disclaimer:**

This question calls for the process of one's own observance. Keeping this in mind, it is strongly recommended that the students prepare the solutions on their own. However, a sample answer has been provided.

Page No 43: Question Do This and Find Out:

Do you remember that in Class IV you did an activity with seeds? Now try another one.

- Take some *chana* and three bowls.
- Put five *chana* in the first bowl and fill it up with water.
- Put a damp piece of cloth or some cotton wool in the second bowl. Now keep the same number of *chanas* in it. Make sure that the cotton wool or cloth remains wet.
- Put the same number of *chanas* in the third bowl. Do not put anything else in it. Cover all the three bowls.

Observe after two days and note the changes in the bowls.

	Bowl 1	Bowl 2	Bowl 3
Are the seeds getting air?	No	Yes	Yes
Are the seeds getting water?			
What changes did you see?			
Have the seeds sprouted?			

Answer:

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Question Tell and Write:

- In which bowl did the seeds sprout? What difference did you see between this bowl and the other bowls?
- Why did Gopal's mother tie the *chana* in a damp cloth?

Answer:

- The seeds sprouted in the second bowl.

This is because in the second bowl, the seeds got air as well as sufficient moisture. On the other hand, the first bowl was filled with more water than that was required. Also, the seeds in the third bowl did not get any water for sprouting.

- Gopal's mother tied the *chana* in a damp cloth to ensure that the chana seeds get proper moisture. The cloth has minute pores that allow the passage of air through it.

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Question Draw: Look carefully at your sprouted chana and make its drawing?

Answer:

***Disclaimer:** This section aims at increasing the creativity of the students. Hence, the students are advised to do this section themselves.*

Question Project: Plant Your:

Take a clay pot or a tin can with a wide mouth. Make a small hole at the bottom of the can. Fill you can with soil. Put four or five seeds of the same kind in the soil and press them gently. Different group can plant different kinds of seeds, such as mustard (*sarson*), fenugreek (*methi*), sesame (*til*) or coriander (*Dhania*).

Write

Name of the seed: _____

The date on which you planted them: _____

The day you observe something coming out of the soil, start filling the table:

Date	Height of the plant (in cm)	Number of leaves seen	Any other change

Answer:

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Page No 45: Question Find out:

- How long did it take for the plant to come out from the soil?
- What was the difference in the height of the plant on the first and second day?

- On which day did the height of the plant increase the most?
- Did new leaves come out of the plant every day?
- Was there any change in the stem of the plant?

Answer:

- **Disclaimer:** *The questions in this section aim at making the students participate in day-to-day activities, based upon which they can make logical deductions. Considering the sustenance of this process of participation the answers to the questions in this section have not been provided.*

Question Discuss:

- Which seeds took the most number of days for the stem to come out of the soil?
- Which seeds took the least days to come out of the soil?
- Which seeds did not grow at all? Why?
- Did anyone's plant dry up or turn yellow? Why did this happen?
- What would happen if the plants do not get water?

Answer:

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Question Straight from your h:

- What is inside the seed?

- How does a big plant grow from a tiny seed?

Answer:

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Question Think:

- Did you keep aniseed (saunf) and cumin (jeera) in your list?
- Which was the smallest seed and which was the biggest seed in your collection?

Answer:

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Question Make Lists of:

- Seeds that are used as spices in your home.
- Seeds of vegetables.
- Seeds of fruits.
- Light seeds (check by blowing them).
- Seeds which are flat.
- Make more groups. How many groups of seeds did you make?
- Do you know any games that you can play with seeds?

Discuss with your friends.

Answer:

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Page No 50:**Question What we have learnt:**

- Reena has drawn this picture of the seed sprouted by her. What do you think the seeds need for sprouting? Write in your own words. How would Reena's seeds look if they did not get the things needed. Show by drawing a picture.
- How do seeds spread too far off places? Write in your own words.

Answer:

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