

NCERT SOLUTIONS

CLASS - 5th



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Q1 What things are soaked before cooking In your house? Why?

Answer. Things which are soaked before cooking:

(i) Chana, moong etc.

(ii) Dry pea, rajma etc.

(iii) Soyabean

(iv) Pulses before grinding up

(v) Rice pulses etc. before grinding

After soaking, these things swell up and soft. Only when they become eatable. If rice, pulse etc. are soaked before cooking, they take less time in cooking and thus fuel can be saved.

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Q2 What things do you eat after sprouting? How are they sprouted? How much time does it take?

Answer. We eat Chana, moong etc. after sprouting them. To sprout them, first these are soaked in water and then wrapped in a wet cloth and hanged up so that they get proper water and air. Chana takes about 36-48 hours in sprouting while moong take 24-36 hours.

Page : 42 , Block Name : Discuss

Q3 Has the doctor or someone you know ever told you to eat sprouts? Why?

Answer. Yes, doctor has advised me to eat sprouts because they are very nutritious.

Page : 42 , Block Name : Discuss

Q1 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 do anything else in it. Cover all the three bowls. Observe after two days and note the changes in the bowls?

Answer.

	<i>Bowl 1</i>	<i>Bowl 2</i>	<i>Bowl 3</i>
Are the seeds getting air?	No	Yes	Yes
Are the seeds getting water?	Yes	Yes	No
What changes did you see?	Chanas have swelled up	Chanas have sprouted	No change
Have the seeds sprouted?	No	Yes	No

Page : 43 , Block Name : Do This And Find Out

Q1 In which bowl did the seeds sprout? What difference did you see between this bowl and other bowls?

Answer. Seeds sprouted in bowl 2 only. In bowl 2, the seeds got both air and water and thus, there sprouted whereas in bowl 1 , these got only water but no air and thus these did not sprout. In bowl 3, these got no water and no air and thus not sprout.

Page : 43 , Block Name : Tell And Write

Q2 Why did Gopal's mother tie the chana In a damp cloth?

Answer. Gopal' s mother tied the chana in a damp cloth so that they get proper water and air.

Page : 43 , Block Name : Tell And Write

Q3 When you split the whole answer, you will get masoor dal, but then you cannot sprout me! Can you think why?

Answer. It is because after splitting, the sprouting capacity of masoor is lost.

Page : 44 , Block Name : Tell And Write

Q4 Look carefully at your sprouted chana and make Its drawing?

Answer.



Page : 44 , Block Name : Tell And Write

Q1 Take a 'clay pot' or a 'tin cat' with a wide mouth. Make a small hole at the bottom of the can. Fill your can with soil. Put four or five seeds of the same kind in the soil and press them gently. Different groups can plant different kinds of seeds such as mustard (sarson), fenugreek (methi'), sesame (till) or coriander (dhanla).

Answer.

<i>Date</i>	<i>Height of the plant (in cm)</i>	<i>Number of leaves seen</i>	<i>Any other change</i>
10 th October	1 cm	2	No
11 th October	1.5 cm	3	No
12 th October	2.5 cm	4	Stem became thicker
14 th October	4 cm	6	Stem became even more thicker

Page : 44 , Block Name : Project Plan Your Seeds

Q1 How long did It take for the plant to come out from the soil ?

Answer. It took a week for the plant to come out from soil.

Page : 45 , Block Name : Find Out

Q2 What was the difference in the height of the plant on the first and second day ?

Answer. The difference was of half centimeters.

Page : 45 , Block Name : Find Out

Q3 On which day did the height of the plant Increase the most?

Answer. On day four i.e. 11th January, the height of the plant increased the most.

Page : 45 , Block Name : Find Out

Q4 Did news leaves come out of the plant every day?

Answer. Yes,Day by day it got thicker.

Page : 45 , Block Name : Find Out

Q5 Was there any change in the stem of the plant?

Answer. Yes, day by day it got thicker.

Page : 45 , Block Name : Find Out

Q1 Which seeds took the most number of days for the stem to come out of the soil ?

Answer. The most number of days were taken by Sesame (til).

Page : 45 , Block Name : Discuss

Q2 Which seeds took the least days to come out of the soil?

Answer. Mustard took the least time.

Page : 45 , Block Name : Discuss

Q3 Which seed did not grow at all? Why?

Answer. All seeds grow up. However, if proper water and air had not been provided, they would not have grown up.

Page : 45 , Block Name : Discuss

Q4 Did anyone's plant dry up to turn yellow? Why did this happen?

Answer. Yes. It happened that plant may not get proper water and nutrients.

Page : 45 , Block Name : Discuss

Q5 What would happen If the plants do not get water?

Answer. They would dry up or turn yellow.

Page : 45 , Block Name : Discuss

Q1 What is inside the seed?

Answer. Inside the seed, there are cotyledons and embryo.

Page : 45 , Block Name : Straight From Your Heart

Q2 How does a big plant grow from a tiny seed?

Answer. The seedling absorbs water and nutrients from the ground and grows into a big plant.

Page : 45 , Block Name : Straight From Your Heart

Q1 What would happen If plants could walk? Draw a picture.







Answer.

Page : 46 , Block Name : Think And Imagine








Q1 Do some plants grow without seeds?

Answer. Yes, some plants like rose, banana etc. grow without seeds.

Q1 How many types of seeds can you collect ? Where will you find them? Each of you should try to collect as many different types of seeds as you can. After that, put all the seed collections together. Now observe these seeds carefully their shapes, sizes, colours, textures (smooth or rough). Make a seed chart to put up in the class. You can with a table like this.

Name of the seed	Color	Shape(draw)	Texture
Rajma	Reddish brown		Smooth
Moong	Green		Soft
Chana	Brown		Soft
Papaya	Black		Rough

Answer.

Mango	Whitish yellow		Rough
Aniseed	Green		Soft
Cumin	Brown		Soft
Apple	Brown		Soft
Mustard	Green		Soft
Lady's finger	Green		Soft
Musk melon	White		Soft

Page : 46 , Block Name : So Many Seeds

Q1 Did you keep aniseed (saunf and cumin (Jeera) In your list?

Answer. Yes, I kept them in my list.

Page : 47 , Block Name : Think

Q2 Which was the smallest seed and which was the biggest seed in your collection?

Answer. The smallest seed was of cumin (jeera) and the largest seed was of mango.

Page : 47 , Block Name : Think

Q1 Seeds that are used as spices in your home.

Answer. Cumin, mustard etc are used in my house as spices.

Page : 47 , Block Name : Make List Of

Q2 Seeds of vegetables.

Answer. Lady's fingers.

Page : 47 , Block Name : Make List Of

Q3 Seeds of fruits.

Answer. Mango , apple, papaya.

Page : 47 , Block Name : Make List Of

Q4 Light seeds (check by blowing them).

Answer. Cumin (jeera) aniseed (saunf).

Page : 47 , Block Name : Make List Of

Q5 Seeds which are flat.

Answer. Rajma, apple, cumin, aniseed.

Page : 47 , Block Name : Make List Of

Q6 Make more groups. How many groups of seeds did you make?

Answer. (i) Seeds which are edible.
(ii) Seeds from which oil is extracted.
(iii) which can float on water.
(iv) Sped' which can float on air.
(v) Seeds which can stick to our body.

Page : 47 , Block Name : Make List Of

Q7 Do you know any games that you can play with seeds? Discuss with your

Answer. Some seeds have hooks of tiny hooks which get attached to clothes or fur. Such seeds are very popular among children. Similarly, a type of flute is made from mango's seed.

Page : 47 , Block Name : Make List Of

Q1 Have you ever seen any seeds that can fly?

Answer. Yes, I have seen them.

Page : 48 , Block Name : Wandering Seeds

Q2 What is it called in your area ?

Answer. It is called Budhiya ke baal.

Page : 48 , Block Name : Wandering Seeds

Q3 Look at your seed collection. Guess how many of those have travelled by flying

Answer. I think seeds of cumin, aniseed and mustard may have been spreading by flying.

Page : 48 , Block Name : Wandering Seeds

Q4 Did you get any new Idea from the seeds?

Answer. Yes these seeds can used play many games and also for decorative Purpose.

Page : 48 , Block Name : Wandering Seeds

Q5 Look at the pictures given below and guess how the seeds travel and reach different places.



Answer. In the first figure, the seed is spreading by a squirrel, in the second by a bird in the third by water.

Page : 49 , Block Name : Wandering Seeds

Q6 Some plants spread their seeds over distances. When the soyabean pods are ripe , they burst and the seeds are thrown out. Have you ever heard their sound?

Answer. Yes, I have heard sound .

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Q7 Think what would happen, if seeds did not spread and remained at one place

Answer. If the seeds did not spread out, they would fall in the parent bed itself leading into struggle for water, minerals and sunlight. As a result, none of the plants would grow properly or survive.

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Q8 Make a list of the different ways by which seeds are spread.

Answer. Seeds are spread by

- (i) Birds and animals
- (ii) Humans
- (iii) Wind
- (iv) Water

Page : 49 , Block Name : Wandering Seeds

Q9 What all was grown In India long ago? Were mangoes and bananas grown there? What came from other countries? Imagine food without potatoes or tomatoes?

Answer. Tea, mango, orange, radish, methi, spinach etc. were grown in India long ago. Yes, Mangoes and bananas were grown there. Tomato, potato, green chilli, cabbage, coffee bean, bhindi, etc. came from other countries. If there had no chillies in our food, the food would have been tasteless.

Page : 50 , Block Name : Wandering Seeds

Q1 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 of they did not get the things needed.

Answer. Seeds need water and air for sprouting. If the seeds do not get water, there would be no change in them. And if they got water but not air, they would not sprout at all though they would swell up.

Page : 50 , Block Name : What We Have Learnt

Q2 How do seeds spread to far off places? Write your own words.

Answer. Seeds are spread by birds animals, air, and water. Birds and animals throw out seeds after eating the fruit. Thus the seeds spread out. Similarly, some light seeds are spread out by wind. Some fruits are out by water, thus seeds are spread out.

Page : 50 , Block Name : What We Have Learnt