

# NCERT SOLUTIONS

**CLASS - 5th**



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Class : 5th  
 Subject : Environmental Studies  
 Chapter : 7  
 Chapter Name : Experiments With Water

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Q1 Ayesha put a puffed puri in a bowl of water. Would It sink or float?

Answer. It would float.

Page : 60 , Block Name : Think What Would Happen If

Q2 You put a steel plate on water. Would it sink or float? What would happen to a

Answer. If the plate is put carefully over the surface of water, it would float. However, the spoon will sink.

Page : 60 , Block Name : Think What Would Happen If

Q3 Would the cap of plastic bottle cap sink or mat on water?

Answer. It would float.

Page : 60 , Block Name : Think What Would Happen If

Q4 Have you seen that something float on water while of hers sink? Think how this happens ?

Answer. Yes, I think that, when water displaced by any thing is greater than it weight, it on water otherwise it sinks.

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Q5 Mark (✓) for the things that float. Mark ( ✕ ) for those that sink.

Answer.

<i>Things to be put in water</i>	<i>I guessed before I did it</i>	<i>I saw when I did it</i>
(a) Empty bowl (Katori)	✕	✕
(b) After putting in 6-7 small pebbles, one-by-one	✕	✕
Iron nail or pin	✕	✕
Matchstick	✓	✓
(a) Empty plastic bottle with its lid closed	✓	✓
(b) Bottle half-filled with water	✓	✓
(c) Bottle full of water	✕	✕
Aluminium foil (from medicine packing)	✓	✓
(a) open and spread out	✓	✓
(b) pressed tightly into a ball	✕	✕
(c) in a cup like shape	✓	✓
(a) Soap cake	✕	✕
(b) Soap cake on a small plastic plate	✓	✓
A piece of ice	✓	✓

Page : 62 , Block Name : Think What Would Happen If

Q6 Find out from the other groups which things floats and which sank in the water.

Answer. A football, a piece of thermocol etc. float on water while a cricket ball, a spoon etc. sink.

Page : 62 , Block Name : Think What Would Happen If

Q7 After doing the experiment, fill in the blanks.

1. The iron nail \_\_\_\_\_ in water but the katori \_\_\_\_\_. I think this happened because

\_\_\_\_\_.

2. The empty plastic bottle \_\_\_\_\_ on water. The bottle filled with water \_\_\_\_\_ because

\_\_\_\_\_.

3. The aluminium foil \_\_\_\_\_ when it was spread out. When pressed tightly into a ball it \_\_\_\_\_. This may have happened because \_\_\_\_\_.

Answer. 1. The Iron nail sank in the water but the katori floated. I think this happened because the weight of water displaced by the iron was less than it but the weight of water displaced by the katori was more than it .

2. The empty plastic bottle floated on water. The bottle filled with water sank because the weight of water displaced by the empty plastic bottle was more than its weight but the weight of bottle filled with water was more that of the weight of watered displayed by it.

3. The aluminum foil floated when it was spread out. When pressed tightly into a ball it sank .This may have happened because the the weight of aluminium foil is than that of water displaced by it but the weight of aluminium ball is more than that of the water displayed by it.

Page : 62 , Block Name : Think What Would Happen If

Q1 Take some water in a glass. Put a lemon in it. Now keep putting salt in the water, half-a-spoon at a time. Were you able to float your lemon in water?

Answer. Yes, the lemon starts to float on water.

Page : 62 , Block Name : Is It Magic

Q2 What do you think, the lemon floated In salty water because....

Answer. Because after adding salt, water sticker.

Page : 62 , Block Name : Is It Magic

Q1 Suggest some ways to Hamid for quickly sugar.

Answer. Hamid should follow any of these methods: Stir the mixture thoroughly. Warm the mixture over a flame.

Page : 62 , Block Name : What Dissolved What Did Not

Q1 Make groups of four friends. For the experiment you will need 4-5 glasses or bowls or bowls and the things listed in the table. Take some water 'n each glass. Now try to dissolve one thing in one glass. Observe that happens and note In the table.

Answer.

<i>Things to be put in water</i>	<i>I guessed before I did it</i>	<i>I saw when I did it</i>
(a) Empty bowl (Katori)	X	X
(b) After putting in 6-7 small pebbles, one-by-one	X	X
Iron nail or pin	X	X
Matchstick	✓	✓
(a) Empty plastic bottle with its lid closed	✓	✓
(b) Bottle half-filled with water	✓	✓
(c) Bottle full of water	X	X
Aluminium foil (from medicine packing)	✓	✓
(a) open and spread out	✓	✓
(b) pressed tightly into a ball	X	X
(c) in a cup like shape	✓	✓
(a) Soap cake	X	X
(b) Soap cake on a small plastic plate	✓	✓
A piece of ice	✓	✓

Page : 64 , Block Name : Do This Experiment

Q1 Could you see the salt after It dissolved In water? If no, why?

Answer. No, because salt got dissolved completely into the water.

Page : 64 , Block Name : Tell

Q2 Does that mean that the water does not have salt? If It has, then where is the salt ?

Answer. Of course, water contains salt. It is completely mixed up with water.

Page : 64 , Block Name : Tell

Q3 What difference did you see In water with salt and water with chalk powder after keeping for some time?

Answer. Water and salt got mixed together completely while chalk powder settles down at the bottom of water.

Page : 64 , Block Name : Tell

Q4 Which of the two would you be to separate from the water by straining with a cloth salt or chalk powder?

Answer. We can chalk powder by straining with a cloth.

Page : 64 , Block Name : Tell

Q5 Do you think the oil dissolved In the water? Why do you think so?

Answer. I do not think so because oil is insoluble in water.

Page : 65 , Block Name : Tell

Q6 You also try to do the same and then which drop went ahead? Why did it slide faster?

Answer. The water drop went ahead. It happens because water does not stick to the Tiffin box but the sugar and oil drop sticks.

Page : 65 , Block Name : Tell

Q1 One day Ayesha's mother put some water to boil on the stove for making tea. She got busy with something and forgot about it. When she remembered and came to check, she found only a few drops of water left in the pan. Think where did the Water go?

Answer. The water evaporated.

Page : 65 , Block Name : Where Did The Water Go

Q2 Why did Chitti Babu and Chinnu Babu keep their mango Jelly in sun?

Answer. They did so to evaporated water from their mango jelly.

Page : 65 , Block Name : Where Did The Water Go

Q3 At your house, what things are made by drying in the sun?

Answer. Eatables like mango jelly (aam papad), papad, badis and potato chips are made by keeping in the sun.

Page : 65 , Block Name : Where Did The Water Go

Q1 You have washed you handkerchief and you want to dry It quickly. What all can you do?

Answer. For that, first the water from the handkerchief should be squeezed out properly and then should be kept in the sun or pressed (by iron).

Page : 66 , Block Name : What We Have Learnt

Q2 What things do you put In water to make tea? Which of these things dissolve in water?

Answer. To make tea, we add milk, tea leaves and sugar into the water. Out of these milk and sugar get dissolved.

Page : 66 , Block Name : What We Have Learnt

Q3 You have been given some mishri pieces (lumps of sugar). Suggest some ways to dissolve them quickly.

Answer. To dissolve the mishri quickly. First it should be crushed to make powder of it. Then after adding it into water, the mixture should stirred thoroughly. The mixture could also be over the flame to dissolve the mishri quickly .

Page : 66 , Block Name : What We Have Learnt