



Alternate Educational Plan for the Month of November 2021-22

Class: 7th std

Subject: Science

Month: November

Sl no	Month/Week	Main learning abilities	Learning activities	Evaluation
1.	November First week Unit: Winds, Storms and Cyclones	They will know practically how the air creates pressure.	<p>Practically demonstrate that the air creates pressure by the following activities.</p> <p>Activity 1</p>  <p>Take a glass jar and fill three-quarters of the water as shown in the picture. Cover the invitation paper sheet on the top of the glass. Invert the glass. Tell the children to describe the experience. After that ask the children to think of a reason why a piece of paper sheet not fall.</p> <p>Activity 2:</p>  <p>Take an empty bottle as shown in the picture above and take the air out of it with your mouth. Notice the change in the bottle. Give time to think why. By the</p>	Suggest to perform activities of the page no. 41 to 42 of 7 th class Science work book.

			<p>experience of these experiments make them understand air has pressure. Then suggest to perform the activity sheet 1.</p>	
		<p>Fast blowing winds associated with low pressure air.</p>	<p>Inspire children to do activities 8.2, 8.3 and 8.4 of 7th Standard Science text book. Make them understand that in context of the experience they have received, winds that are blowing very fast contain low-pressure air. Tell them to perform. activity Sheet 2.</p> <p>https://www.youtube.com/watch?v=dE16p3oPcH8</p> <p>Help them to watch above video.</p>	
2.	<p>November Second week Unit: Winds, Storms and Cyclones</p>	<p>Children will understand the impacts of winds, storms and hurricanes and will be aware of the precautions that must be taken to protect them.</p>	<p>https://www.youtube.com/watch?v=-4llzSu2gvQ</p> <p>https://www.youtube.com/watch?v=oUqixenRXtQ</p> <p>Send the above video links to children to inspire them to watch and help children to understand the impacts of winds, storms and hurricanes.</p>	<p>Suggest to perform activities of the page no. 43 of 7th class Science work book.</p>
3.	<p>November Third week Unit: Soil</p>	<p>Know the structure of the soil layer.</p>	<p>Collect some samples of clay and carefully observe them using a hand lens, help to fill the table given in the activity sheet 5. Facilitate to perform the activity 9.2 of the text book , Help the children to observe the topography of the soil and co-operate to complete activity sheet 6.</p>	<p>Suggest to perform activities of the page no. 44 to 47 of 7th class Science work book.</p>

		List the types of soil and the crops that are grown in them.	https://www.youtube.com/watch?v=BATKysgZW4 Send the above video links to children to inspire them to watch. Inspire to understand the types of soil and the crops that are grown in them . Then help them to perform activity Sheet 7.	
4	November Fourth week Unit: Respiration in organisms	Will understand the human respiratory order.	By finding out what respiratory function is in the children's daily routine. Ask them to fill out the table by determining if the respiratory rate is too slow, slow, normal breathing, and fast breathing in the activity sheet. On the same activity sheet, ask them to specify changes in respiratory rates under different conditions.	Help to perform the activities from page no. 1 to 4 of 7 th class Science work book.
		They will understand mechanism of respiration in humans.	https://www.youtube.com/watch?v=qYud4j_jTRE Tell them to watch the human respiratory tract organs and their functions with the help of the above video. Tell them to perform activity Sheet 9.	Help perform activities from page 5 to 7 of Science work book.
		They will understand the respiration of different animals	https://www.youtube.com/watch?v=bwiE110Mfo After watching the video above, tell children to learn how the respiratory system works in different organisms and perform the activity sheet 10.	

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Unit: Winds, Storms and Cyclones

7th Standard

Activity Sheet -1

Month: NOVEMBER 2021



Take a glass jar and fill three-quarters of the water as shown in the picture. Cover the invitation paper sheet on the top of the glass. Invert the glass. Tell the children to describe the experience. After that ask the children to think of a reason and explain why a piece of paper sheet not fall.



Take an empty bottle as shown in the picture above and take the air out of it with your mouth. Notice the change in the bottle. Think about why..

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Unit: Winds, Storms and Cyclones

7th Standard

Activity Sheet -2

Month: NOVEMBER 2021

Conduct activities given in your science textbook with the help of seniors or teachers. Discuss with teachers about your experience. Answer the following questions.

1. You thought that the paper pebbles inside the mouth of the bottle would go inside the bottle? But what caused the paper pebbles to come out?

2. When the air is blown between two balloons, the balloon will instinctively go away! But what happened? Why?

3. What caused the paper list to soar in the third activity?



My Dear Children, The Fastest Breeze has Low Pressure Air.

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Unit: Winds, Storms and Cyclones

7th Standard

Activity Sheet -3

Month: NOVEMBER 2021

<https://www.youtube.com/watch?v=-4llzSu2gvQ>

<https://www.youtube.com/watch?v=oUqixenRXtQ>

Watch the above videos and perform the following activities.

Choose the appropriate answers and write.

1. Reason for the flood of winds on the earth

- a. The unequal temperature between the equator and the pole
- b. The unequal temperature between the earth and the water
- c. The unequal temperature between the equator and the southern continents
- d. The unequal temperature between ground and forest

2. The direction in which the winds blow in the winter

- a. From the ocean to the earth
- b. From the polar region to the equator
- c. From land to ocean.
- d. From the coastal region to the equator

3. Cyclones are occur due to

- a. the fastest winds.
- b. Destruction of the forest
- c. the pouring of rain.
- d. The difference in air pressure.

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Unit: SOIL

7th Standard

Activity Sheet -5

Month: NOVEMBER 2021

Dear friends, collect some samples of soil and carefully observe them using a hand lens, fill the table.

Sl.No.	Soil Source	Plants	Animals	Other factors observed
1	Garden Soil	Grass...	AntÉ...	
2	Road side soil			
3	Soil in the area where the building under construction			
4				
5				
6				
7				
8				
9				

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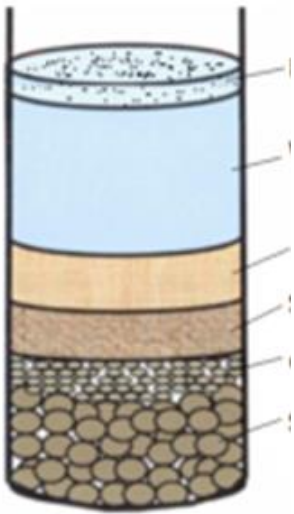
Unit: SOIL

7th Standard

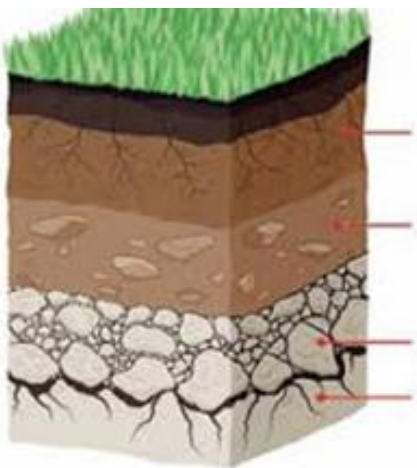
Activity Sheet -6

Month: NOVEMBER 2021

Identify the different layers of soil in the picture below.



Mark the different layers of soil in the picture below.



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Unit: SOIL

7th Standard

Activity Sheet -7

Month: NOVEMBER 2021

https://www.youtube.com/watch?v=BATKysgZW_4

Watch the video with the link above Perform the following activities.

1. List the soil types

1. List the crops grown in the soil types given in the table below.

Sl.No.	Soil Types	Growing crops
1.	Red soil	
2.	Clay soil	
3.	Black soil	
4.	Sand mixed red soil	
5.	Alluvial soil	
6.	Laterite soil	
7.	Sandy soil	

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Unit: Respiration in organisms

7th Standard

Activity Sheet -8

Month: NOVEMBER 2021

Identify our respiratory rates while performing the following activities

Sl.No.	Activities to perform	Very slow/Slow/Normal/fast
1.	Washing clothes	
2.	Sleep	
3.	reading	
4.	walking	
5.	Dance	
6.	Climbing stairs	
7.	Running	
8.	talking	
9.	When speaking impulsively	
10	While eating	

Record the changes in your friends respiratory rate under different conditions in the table below

Name of the classmate	respiratory rate			
	General condition	After 10 minutes of intense walking	After 100 meters fast race	In a relaxed state
Yours				

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Unit: Respiration in organisms

7th Standard

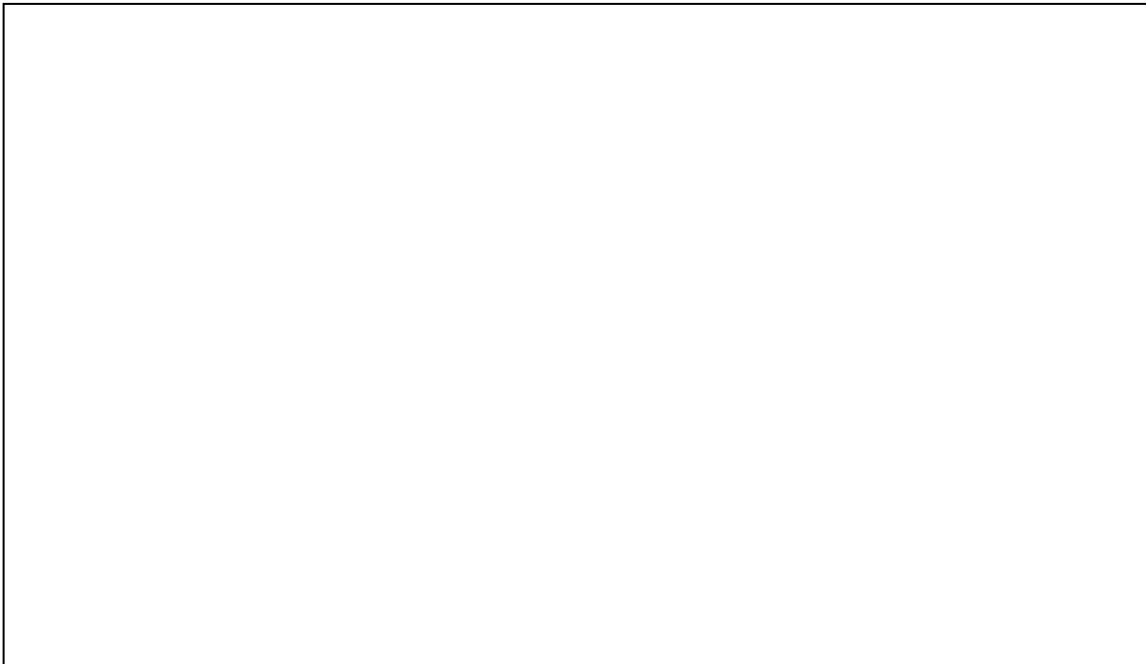
Activity Sheet -9

Month: NOVEMBER 2021

https://www.youtube.com/watch?v=qYud4j_jTRE

Watch the video above and perform the following activities.

1. Draw a diagram of the human respiratory system and identify the parts.



2. With the help of seniors demonstrate the activity 10.5 model showing respiratory function in your science textbook in the classroom.

3. Describe human respiration.

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Unit: Respiration in organisms

7th Standard

Activity Sheet -10

Month: NOVEMBER 2021

<https://www.youtube.com/watch?v=bwiE11l0Mfo>

After watching the video above, learn how the respiratory system works in different organisms and perform the following activity.

Match the following organisms to one of their respiratory organs.

Organisms	Respiratory organs
1. Frog	gills
2. Earthworm	Stomata
3. The human	trachea
4. Fish	Moist skin and lungs
5. Insects	lungs
6. Plants	Moist skin

Draw a diagram showing the respiratory organs of the fish and label the parts.

