

## Alternative academic plan – 2021–22

**Class: VII**

**Subject : Science**

**Month : September 2021**

<i>Sl No</i>	Month and Week	Important learning competencies	Learning Activities	Evaluation
<i>1</i>	September first 10 days Ch : Fibre to Fabric	Able to explain the various steps in the processing of fibres into wool	<p>Activity 1 : Collect pieces of clothing of various kinds, paste them on a drawing sheet, and let them write out what threads they are made of. <a href="https://youtu.be/Atw9s8AHsR8">https://youtu.be/Atw9s8AHsR8</a> Suggest to watch the wool fabric manufacturing steps given in the video link .</p> <p>Activity 2: After viewing the video, look at the pictures in the Activity Sheet 2 to help explain the tanning process.</p>	1. Evaluate given activities in the workbook 2. Suggest to collect the pictures of fibre yielding animals such as sheep.
		Students will learn about the life history of silkworm.	<p>Activity 3: <a href="https://youtu.be/-c3Oof8DMZw">https://youtu.be/-c3Oof8DMZw</a> Guide the students to watch the video on life history of silkworm by using given link. Activity 4: Guide the students to complete the activity sheet 3 .</p>	Guide the students to complete question 34 given in the workbook (page no 15 ).
		Understand the silk processing stages and analyze whether it is morally right way to get silk from silkworms.	<p>Activity 5 <a href="https://youtu.be/CmBgfQZKbk4">https://youtu.be/CmBgfQZKbk4</a> View the silk processing stages through the link given above. Guide the students to visit local silk processing centers or silkworm farms to collect the information. Activity 6: Guide the students to discuss on morality behind the silk production with their friends and parents.</p>	What you mean by rolling of yarn?

	<p>September second 10 days Ch : Heat</p>	<p>Definition of heat, types of thermometers, and the method of usage.</p>	<p>Activity 1 : <a href="https://youtu.be/J_-HFffBjMA">https://youtu.be/J_-HFffBjMA</a> <a href="https://youtu.be/bPf0Q0jon-0">https://youtu.be/bPf0Q0jon-0</a> Watch the video by using the link given. Guide them to write the precautions to be taken while using the thermometer in Activity Sheet 1 and instruct them to tabulate the differences between the clinical mercury thermometer and the infrared thermometer in the Activity Sheet 2.</p>	<p>Guide the students to complete the activities given in the workbook from page no 19- 22.</p>
		<p>They will understand the mechanisms of heat transfer through simple experiments</p>	<p>Activity 2: <a href="https://youtu.be/M634MR43JcQ">https://youtu.be/M634MR43JcQ</a> Guide to view heat transfer methods with the help of the link above. Instruct parents to help children to do the practical activities given in the activity sheet 3. Guide them to complete the Activity Sheet 4 by studying the textbook.</p>	
	<p>September third 10 days Ch : Acids bases and salts</p>	<p>Identifies acid and acidic substances used in everyday life.</p>	<p>Activity 1 : : <a href="https://youtu.be/4DwfmwZe_jo">https://youtu.be/4DwfmwZe_jo</a> <a href="https://youtu.be/yU6Sfiefub8">https://youtu.be/yU6Sfiefub8</a> <a href="https://youtu.be/28cCUBf0aWw">https://youtu.be/28cCUBf0aWw</a> <a href="https://youtu.be/o_Oxutnx-sI">https://youtu.be/o_Oxutnx-sI</a>  guide the children to watch the videos and ask them to tabulate the taste of various food stuffs used in their everyday life.  Activity 2: Guide the students to complete the activity sheet 2 by studying the Acids and basic acids on pages 66 and 67 of the textbook.</p>	<p>Guide the students to complete the activities given in the workbook from page no 23- 28.</p>

		<p>With the help of indicators, the ingredients are identified as acidic or acidic.</p>	<p>Activity 3  <a href="https://youtu.be/HWUGhGIyKG4">https://youtu.be/HWUGhGIyKG4</a>          Guide them to watch the video to test the acidity and acidity of various substances using the suggestion P using the link above.</p> <p>Activity 4:          Conduct the experiment with the indicators in Activity 5.2 given in the page 69 of the textbook.</p> <p>Activity 5  <a href="https://youtu.be/pL-xdGjJ7Lg">https://youtu.be/pL-xdGjJ7Lg</a>          Encourage the students to prepare litmus paper as in the video.          Guide them to complete Activity Sheet 4.</p>	
		<p>They will know the importance of neutralization in everyday life.</p>	<p>Activity 6:  <a href="https://youtu.be/zQhbB5myFI0">https://youtu.be/zQhbB5myFI0</a>          Guide to view neutralization reaction with the help of the link given .          Instruct the children to answer the questions in Activity Sheet 5 by doing Activity 5.4 of Science Textbook.</p>	<p>What is Neutralization?          Why is organic manure is better than chemical fertilizer?</p>

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**Subject : Science**

Activity Sheet – 1

Ch : Fibre to Fabric

Sl. No	Type of cloth piece	Type of fibre used
1		
2		
3		
4		
5		
6		
7		
8		

Dear student, collect the pieces of various clothes. You can collect from your home or nearby tailoring shop. Paste them in the given table and write the name of the thread they are woven.

Activity Sheet –2

Chapter : Fibre to Fabric .



Step – 1 Shearing



Step -2 Scouring



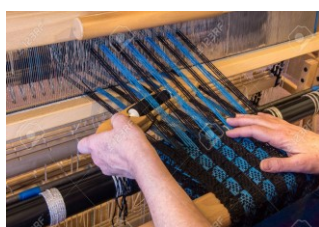
Step-3 Sorting



Step – 4 Cleaning of burrs



step -5 Dyeing



Step – 6 Rolling in to yarn



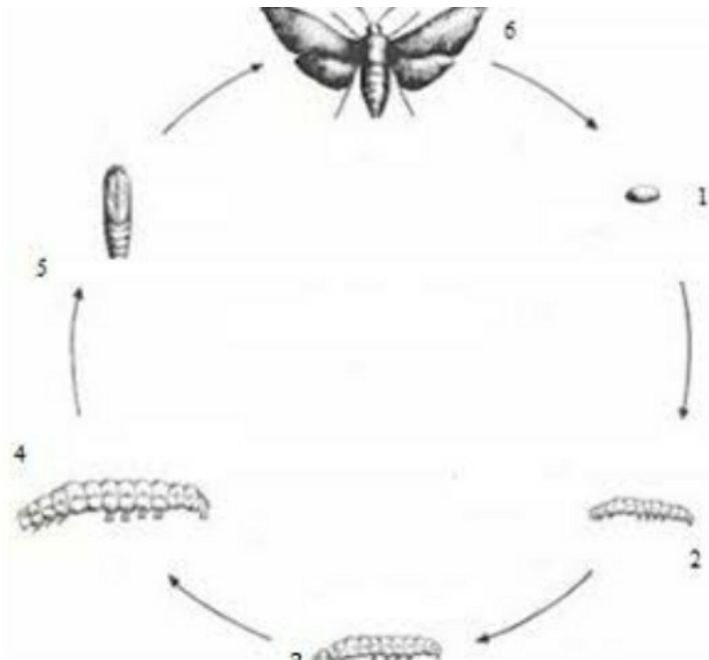
Step – 6 Rolling in to yarn

Dear student observe the given pictures and explain the various steps involved in the wool processing.

Activity Sheet – 3

Chapter: Fibre to Fabric

Write the pictures of life of silkworm as given below



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Activity Sheet – 1

Class: VII

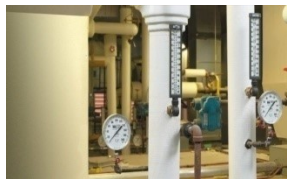
Subject : Science

Chapter: Heat

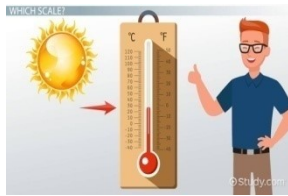
Observe the given figure. Write the uses of thermometer by taking the help of teacher or parents.



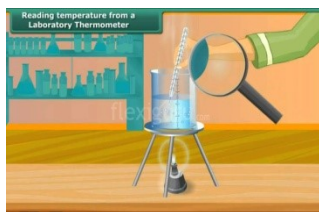
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Activity Sheet – 2

Class: VII

Subject : Science

Chapter: Heat



1. Write the differences between infrared thermometer and clinical thermometer.

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2. What are the precautions must be taken while handling the thermometer.

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Activity Sheet – 3

Class: VII

Subject : Science

Chapter: Heat

Dear students, Shall we do a couple of simple experiments on heat? You should seek the help of elders to do these experiments. These activities should not be done without the help of elders.

1. While preparing a soup in the kitchen, try to touch the ladle under the supervision of your parents. What is your experience now?

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2. Heat is supplied to the bottom of vessel. Then how is the ladle becomes hot? Think and write.

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3. With the help of elders drop a few pieces of paper in to boiling water. Why are the paper pieces are moving up and down? Think and write the answer.

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4. Observe the given picture. When we are far away from the flame of fire to get the protection against cold, our body becomes warm. Isn't it? Now keep your hand one foot away from the stove's flame and you will notice that your hand is getting warmed up. How is the hand becoming warm even though you are not in direct contact with the flame? Think and write.



Discuss with the teacher for more details. (Keep your hands at safe distance from the flame.)

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Activity Sheet – 4

Class: VII

Subject : Science

Chapter: Heat

1. After studying the chapter, answer the following questions.

A) Conduction: \_\_\_\_\_

B) Convection

C) Radiation

2. Classify the following.

Heating of water, Solar radiations reaching the earth, heating of the vessel handle, transfer of heat in the metal, cooling of the hot water in a cup, mixing up of hot and cold water, burning of hand on touching the hot object, Heating up of head on walking in the scorching sun, heating of silencer of a running vehicle.

Conduction	Convection	Radiation

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Activity Sheet – 1

Class: VII

Subject: Science

Chapter: Acids, bases and salts

Dear student,

Can you taste the following substances and tabulate in the given table?

Substances	Taste ( Sour / bitter / any other tastes )
Lemon juice	
Orange juice	
Sugarcane juice	
Curd	
Tamarind juice	
Sugar	
Baking soda	
Bitter guard	
Common salt	
Gooseberry	
Grapes	
Cucumber	
Mango	
Neem leaf	
Tomatoes	
Banana	
Water	
Pomegranate fruit	

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Activity Sheet – 2

Class: VII

Subject: Science

Chapter: Acids, bases and salts

Dear student,

Match the following by studying the chapter and write the correct answer in the given column.

A	B	Ans
1. Curd	Tartaric Acid	
2. Spinach	Calcium hydroxide	
3. Window Cleaner	Citric Acid	
4. Tamarind	Lactic Acid	
5. Washing Soap	Ascorbic Acid	
6. Lime water	Formic Acid	
7. Lemon	Ammonium Hydroxide	
8. Milk of Magnesium	Sodium Hydroxide	
9. Secretion of ant's sting	Magnesium hydroxide	
10. Gooseberry	Oxalic Acid	

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Activity Sheet – 3

Class: VII

Subject: Science

Chapter: Acids, bases and salts

Dear student,

Make turmeric paper strips as given in the activity 5.2. Dip the turmeric paper in the test solutions and tabulate your results in the given table.

Sl No.	test solution	Colour of turmeric strips	Remarks
1	Lemon juice		
2.	Orange juice		
3	Baking soda		
4	Lime water		
5	Sugar		
6	Common salt		
7	Soap solution		

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Activity Sheet – 4

Class: VII

Subject: Science

Chapter: Acids, bases and salts

<https://www.youtube.com/watch?v=AA8XAitDapg>

Make a litmus paper using hibiscus flowers as given in the above link. Add a drop of each of test solution and tabulate your observations. If the blue litmus turns red, the solution is acidic and if red litmus turns blue, it is basic. Now write the following solutions as acid or base, based on your observations.

Sl No	Test solution	Effect on red litmus paper	Effect on blue litmus paper	Inference
1.	Shampoo solution			
2.	Lemon juice			
3.	Tamarind juice			
4.	Lime water			
5.	Soap solution			
6.	Baking soda			
7.	Sugar solution			
8.	Tomato juice			

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Activity Sheet – 5

Class: VII

Subject: Science

Chapter: Acids, bases and salts

Dear student,

Study the neutralization reaction given in the activity 5.4 and try to answer the following questions.

1. Why do we consume an antacid tablet or antacid solution when we suffer from acidity?
2. Why is the organic matter added to a basic soil ?
3. Why does the basic solution is applied when ant bites? Explain.