

**CLASS - IX**  
**LESSON PLAN**  
**CHAPTER-6: Tissues**

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| Unit                                                | Biology (Chapter 6: (Tissues))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Class Transaction                                   | Total: 14 periods (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pre-requisite for the course                        | This lesson requires <ol style="list-style-type: none"> <li>1. Basic knowledge of characteristics shown by living organisms.</li> <li>2. Basic knowledge of different cell organelles .</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Assessment of qualifying knowledge                  | <ol style="list-style-type: none"> <li>1. Written test</li> <li>2. Group Discussion</li> <li>3. HW notebook</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Objective                                           | Given the content (chapter) the students will be able to describe the difference between plant and animal tissue. They will be able to classify different plant tissue. They will also be able to enlist the functions of different plant and animal tissue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Dimensions of Learning                              | DOL1, 2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Learning Outcomes                                   | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <ol style="list-style-type: none"> <li>1. Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.</li> <li>2. Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</li> <li>3. Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</li> <li>4. <b>Create</b> flow chart on the basis of different tissue structure and functions.</li> <li>5. Answer knowledge, understanding, application and diagrammatic skill based questions based on the topic.</li> </ol> |
| Transaction Methodology<br>(The teacher can use the | Transaction would proceed in the following manner-<br><i>Introduction of the topic</i> - Warming up questions, PPT and Digital Content would be shared for building up of concept and then various active learning and collaborative strategies will be followed during the transaction of lesson plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| <p>mentioned techniques, wherever applicable, and can use any other too.)</p> | <p>Transaction would proceed in the following manner-</p> <p>After student -teacher interaction and explanation by the teacher, following strategies will be followed for concept building</p> <p>Active learning-1. <i>Frayer Model</i> on meristematic tissue (<b>Critical thinking</b>)<br/>Students will study the meristematic tissue silently and then facilitator will build the concept with frayer model. This is a graphical organizer where four square model prompt students to think about :<br/>In this model , four squares will be characteristics,non- characteristics, location , functions.</p> <p><b>2.Cubing:</b> is an active learning strategy that asks students to consider a concept from variety of different concepts.<br/>1.The class is divided into groups and each group will be assigned a particular meristematic tissue based on location, characteristics and functions.<br/>2.Permanent tissue- Xylem and phloem based on location, type of cells, function .(<b>critical thinking,collaboration and communication</b>)</p> <p>Group learning-<br/><b>Jig Saw-</b> The class will be divided into various groups and each group comprises of five students. The topic of epithelial tissue, connective tissue, muscular tissue and nervous tissue will be assigned to each student in the group. Give students time to read their topic at least twice.Form temporary expert group by having one student from each jig saw group join other students who have been assigned the same topic. Give students in these expert groups time to discuss the main points of their topic and to rehearse the presentations they will make to their jigsaw group.Bring them back to their jigsaw groups where each student will again explain their topic and teacher can intervene if group is not going in right direction( <b>Critical thinking,communication,collaboration and character</b>)<br/>The class will be divided in the group of 5 students. <b>Circle the Sage-</b> The question will be asked by the teacher about the different types of simple permanent tissue. (<b>Communication, Collaboration</b>)</p> <p>Questioning- <i>Pose, pause, pounce and bounce-</i> Teacher will prepare a list of question about the animal tissues. (<b>Critical thinking, Communication</b>)<br/><b>Demonstration-</b> Observation of animal and plant tissue and students will observe it and then note down their observations simultaneously in their record book.<br/><b>Think-pair -share- Bark of tree-</b> Teacher will introduce the topic with the help of ppt, student will think and reflect for a minute and then share it in pair.<br/><i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.</p> |
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|                                    | <p><b>Techniques to be used:</b><br/> Quiz<br/> Daily Practice Problem<br/> MCQ<br/> Peer Assessment<br/> Student -teacher interaction,<br/> Wipro- G.O.s(web chart, flow chart and differentiation table,compare- contrast matrix),<br/> silent/ loud reading,<br/> collaborative learning,<br/> Any Other</p>                                                                                                                                                                                                                                       |
| Resources                          | <p>Text Book:<br/> NCERT text book for Science.<br/> Reference Book<br/> CBSE Exemplar</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Self Study, Home Work, Assignments | <p><b>Independent Practice:</b> Students would do the questions in their H.W notebooks as mentioned in the monthly planner.</p> <p>HW notebooks to be marked as per the given plan:<br/> <i>Assessment Parameters:</i> The total marks for the activity is 5 marks<br/> On time submission.....1 mark<br/> Presentation/ Neatness.....1 mark<br/> Content.....3 marks</p> <p>It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.</p> |
| Assessments                        | <p><b>4 UNIT TESTS</b> (20, 20, 20,20)80 Marks<br/> <b>HALF YEARLY EXAMINATION</b>80 Marks<br/> <b>ANNUAL BOARD EXAMINATION</b> 80 Marks</p> <p><b>PERIODIC TEST</b><br/> Average of the best two tests to be taken that will have a weightage of 10 marks.</p> <p><b>INTERNAL ASSESSMENT</b>20 Marks</p> <ul style="list-style-type: none"> <li>• Periodical Test 10 Marks</li> <li>• Note Book Submission 05 Marks</li> <li>• Subject Enrichment 05 Marks</li> </ul>                                                                                |
| Addressing Classroom Diversity     | <p>Due to various social backgrounds and multiple intelligences, the classroom might be a diverse arena. The following techniques can be used for various groups:</p>                                                                                                                                                                                                                                                                                                                                                                                 |

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|                         | <p><i>For gifted students:</i></p> <ul style="list-style-type: none"> <li>• High order thinking questions</li> <li>• Encouragement for referring other resources</li> </ul> <p><i>For weak students:</i></p> <ul style="list-style-type: none"> <li>• Buddy help to be provided</li> <li>• Provide grade-up classes</li> </ul> <p><i>For differently abled students:</i></p> <ul style="list-style-type: none"> <li>• Ignore spelling mistakes.</li> <li>• Call parents at regular intervals</li> <li>• Provide grade-up classes</li> </ul> |
| Marks                   | The weightage would be given by CBSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Question for assessment | <ol style="list-style-type: none"> <li>1. What is the utility of tissue in multicellular organism?</li> <li>2. Give difference between simple and complex permanent tissue</li> <li>3. C</li> </ol>                                                                                                                                                                                                                                                                                                                                         |

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| Topic                                    | <b>Day 1 Introduction to the tissue.</b>                                                                                                                                                                                                                                                                                                                                                                                                               |
| Class Transaction                        | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pre-requisite for the course             | <p>This lesson requires</p> <p>Basic knowledge of characteristics shown by living organisms.</p> <p>Basic knowledge of different cell organelles .</p>                                                                                                                                                                                                                                                                                                 |
| Assessment of qualifying knowledge       | <ol style="list-style-type: none"> <li>4. Written test</li> <li>5. Group Discussion</li> <li>6. HW notebook</li> </ol>                                                                                                                                                                                                                                                                                                                                 |
| Objective                                | Students will be able to explain difference between plant and animal tissues                                                                                                                                                                                                                                                                                                                                                                           |
| Dimensions of Learning                   | DOL 1,2                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Learning Outcomes                        | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.</p> |
| Transaction Methodology (The teacher can | <p>Transaction would proceed in the following manner-</p> <ul style="list-style-type: none"> <li>• <b>Wipro Technique: Brain storming, compare contrast matrix,</b></li> </ul>                                                                                                                                                                                                                                                                         |

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| use the mentioned techniques, wherever applicable, and can use any other too.) | <p><b>(KWL- What you Know, What you will Learn, What you have learned).</b></p> <ul style="list-style-type: none"> <li>• <b>Competency- Collaborative</b></li> </ul> <p><b>Activity :</b> The class will be divided into groups and they will be asked to write the differences between plant and animal tissues in their copy after discussion</p> <p><b>The following questions will be asked to check their understanding:</b></p> <ul style="list-style-type: none"> <li>• Why plant tissues are majorly made up of dead cells?</li> <li>• Why living cells are placed in animal cells?</li> <li>• Compare plant and animal tissues .</li> </ul> <p><i>Introduction of the topic-</i> PPT and Digital Content would be shared</p> <p><i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom.</p> <p><b>Techniques to be used:</b><br/> Quiz<br/> Daily Practice Problem<br/> MCQ<br/> Peer Assessment<br/> Student -teacher interaction,<br/> Wipro- G.O.s(web chart, flow chart and differentiation table,compare- contrast matrix),<br/> silent/ loud reading,<br/> collaborative learning,<br/> Any Other</p> |
| Closure                                                                        | By mind map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assignment                                                                     | NCERT question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Assessments                                                                    | Worksheet based on concept                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| Topic                        | <b>Day 2 Classification of plant tissue</b>                                                                                                   |
| Class Transaction            | (approx. 40 min each)                                                                                                                         |
| Pre-requisite for the course | This lesson requires<br>3. Basic knowledge of characteristics shown by living organisms.<br>4. Basic knowledge of different cell organelles . |
| Assessment of qualifying     | Recap of previous day                                                                                                                         |

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| knowledge                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Objective                                                                                                                  | Students will be able to classify plant tissues into meristematic and permanent tissues.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dimensions of Learning                                                                                                     | DOL 1,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Learning Outcomes                                                                                                          | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i><br/>Appreciate the importance of tissue and different types of tissues <b>collaboratively.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher</p> <p><b>Competency- Critical thinking</b></p> <p><b>Activity- The students go through activity 6.1 and they will try to reason out the observations for the activity in the group followed by smart class module on classification of plant tissue</b></p> <p><b>The following questions will be asked to check their understanding:</b></p> <ul style="list-style-type: none"> <li>• List the various types of meristematic tissues.</li> <li>• Compare them based on their location, structure and functions</li> <li>• What would happen if we are going to cut the apex of root and stem.</li> <li>• Do roots continue to grow even after we have removed their tips?</li> </ul> <p><i>Introduction of the topic-</i> PPT and Digital Content would be shared</p> |
| Closure                                                                                                                    | <b>By concept map</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Self Study, Home Work, Assignments                                                                                         | NCERT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assessments                                                                                                                | Oral response from the students                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| Topic                              | <b>Day 3 Meristematic tissue</b>               |
| Class Transaction                  | (approx. 40 min each)                          |
| Pre-requisite for the course       | This lesson requires basic knowledge of tissue |
| Assessment of qualifying knowledge | Recap of previous day                          |

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| Objective                                                                                                                  | Student will be able to classify different type of meristematic tissue based on their structure, location and function                                                                                                                                                                                                                                                                                              |
| Dimensions of Learning                                                                                                     | DOL 1,2                                                                                                                                                                                                                                                                                                                                                                                                             |
| Learning Outcomes                                                                                                          | <p><u>KNOWLEDGE</u>- <i>Students will be able to classify : Different types of meristematic tissue</i></p> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.<br/>Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p>                    |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Active learning-1. <i>Frayer Model</i> on meristematic tissue (<b>Critical thinking</b>)<br/>Students will study the meristematic tissue silently and then facilitator will build the concept with frayer model. This is a graphical organizer where four square model prompt students to think about :<br/>In this model , four squares will be characteristics,non- characteristics, location , functions.</p> |
| Closure                                                                                                                    | By mind map                                                                                                                                                                                                                                                                                                                                                                                                         |
| H.W                                                                                                                        | Diagram on location of meristematic tissue                                                                                                                                                                                                                                                                                                                                                                          |
| Assessments                                                                                                                | One minute test.                                                                                                                                                                                                                                                                                                                                                                                                    |

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| Topic                              | Day 4 <b>Meristematic tissue</b>                                                                                      |
| Class Transaction                  | (approx. 40 min each)                                                                                                 |
| Pre-requisite for the course       | This lesson requires basic knowledge of tissue                                                                        |
| Assessment of qualifying knowledge | Recap of previous day                                                                                                 |
| Objective                          | Student will be able to classify different type of meristematic tissue based on their structure,location and function |
| Dimensions of Learning             | DOL 1,2                                                                                                               |
| Learning Outcomes                  | <p><u>KNOWLEDGE</u>- <i>Students will be able to classify : Different types of meristematic tissue</i></p>            |

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|                                    | <p><u><b>SKILLS-</b></u> <i>Students would be able to</i></p> <p>Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.<br/>Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p> |
| Transaction Methodology            | <p><b>Cubing:</b> is an active learning strategy that asks students to consider a concept from variety of different concepts.<br/>1.The class is divided into groups and each group will be assigned a particular meristematic tissue based on location, characteristics and functions.</p>  |
| Closure                            | By mind map                                                                                                                                                                                                                                                                                  |
| Self Study, Home Work, Assignments | NCERT Questions                                                                                                                                                                                                                                                                              |
| Assessments                        | One minute test.                                                                                                                                                                                                                                                                             |

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| Topic                              | Day 5 <b>Simple permanent tissue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Class Transaction                  | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pre-requisite for the course       | <p>This lesson requires</p> <ol style="list-style-type: none"> <li>5. Basic knowledge of characteristics shown by living organisms.</li> <li>6. Basic knowledge of different cell organelles .</li> </ol>                                                                                                                                                                                                                                                                  |
| Assessment of qualifying knowledge | <ol style="list-style-type: none"> <li>7. Written test</li> <li>8. Group Discussion</li> <li>9. HW notebook</li> </ol>                                                                                                                                                                                                                                                                                                                                                     |
| Objective                          | Students will be able to classify simple permanent tissue based on their structure, location and function                                                                                                                                                                                                                                                                                                                                                                  |
| Dimensions of Learning             | DOL 1,2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Learning Outcomes                  | <p><u><b>KNOWLEDGE-</b></u> <i>Students will be able to</i></p> <ul style="list-style-type: none"> <li>• Explain the structure of simple permanent tissue</li> </ul> <p>.</p> <p><u><b>SKILLS-</b></u> <i>Students would be able to</i></p> <p>Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.<br/>Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p> |

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| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher</p> <p><b>Activity-</b> <b>The students will sit in group and silently read content on simple permanent tissue. With the help of students teacher will develop the flow chart on different type of simple permanent tissue.</b></p> <p><b>The following questions will be asked to check their understanding:</b></p> <ul style="list-style-type: none"> <li>• What kinds of cells are present in parenchyma?</li> <li>• Give its structure and function.</li> <li>• Give examples where this tissue is present.</li> <li>• Compare arenchyma and chlorenchyma.</li> <li>• What kinds of cells are present in collenchyma?</li> <li>• Give its structure and function.</li> <li>• Give examples where this tissue is present.</li> <li>• What kinds of cells are present in sclerenchyma?</li> <li>• Give its structure and function.</li> <li>• Give examples where this tissue is present.</li> <li>• Compare these three tissues on the basis of their structure, location and functions.</li> </ul> |
| Closure                                                                                                                    | By mind map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Self Study, Home Work                                                                                                      | NCERT Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Assessments                                                                                                                | One minute test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| Topic             | <b>Day 6– Subtopic- complex permanent tissue</b>         |
| Class Transaction | (approx. 40 min each)                                    |
| Pre-requisite for | This lesson requires basic knowledge of permanent tissue |

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| the course                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Assessment of qualifying knowledge                                                                                         | Recap of previous day learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Objective                                                                                                                  | Students will be able to classify simple permanent tissue based on their structure, location and function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions of Learning                                                                                                     | DOL 1, 2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Learning Outcomes                                                                                                          | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>Classify different type of plant tissue.</li> <li>Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.<br/>Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p>                                                                                                                                                                                                                                                                                                                                                                                    |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher<br/> <b>Activity- Collaborative work-Think, pair and share. The students will sit in group and silently read content on complex permanent tissue.</b><br/> <b>Competency- Collaborative</b><br/> <b>The following questions will be asked to check their understanding:</b></p> <ul style="list-style-type: none"> <li>Name the permanent tissue present in plant</li> <li>What are the different cells present in xylem?</li> <li>Give their structure and function.</li> <li>Give examples where this tissue is present.</li> <li>What kinds of cells are present in phloem</li> <li>Give their structure and function.</li> </ul> <p><i>Introduction of the topic-</i> PPT and Digital Content would be shared</p> |
| Closure                                                                                                                    | By mind map                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| Self Study,<br>Home Work,<br>Assignments | NCERT QUESTION  |
| Assessments                              | One minute test |

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| Unit                               | <b>Day 7: Visit to lab for observing permanent plant and animal tissues slides</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Class Transaction                  | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Pre-requisite for the course       | Recap of plant tissues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Assessment of qualifying knowledge | Multiple question on plant tissue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Objective                          | Given the content students will be able to observe the permanent slides of plant and animal tissue and they will be able to identify the slides and list their characteristics.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions of Learning             | DOL1, 2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Learning Outcomes                  | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>6. Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.</p> <p>7. Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p> <p>8.</p> |
| Transaction Methodology            | <p>Transaction would proceed in the following manner-</p> <p>Observation of slides by students and guided practice given by facilitator on the board</p> <p><b>Demonstration</b>- Observation of animal and plant tissue and students will observe it and then note down their observations simultaneously in their record book.</p>                                                                                                                                                                                                                                                                   |
| Closure                            | By discussion of Practical based question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Home Work, Assignments             | Diagram drawing in practical notebbok                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| Assessments | Peer assessment of diagram            |
| Marks       | The weightage would be given by CBSE. |

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| Topic                              | <b>Day 8: Subtopic- Epidermis and bark</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Class Transaction                  | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pre-requisite for the course       | This topic requires basic knowledge of plant tissue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assessment of qualifying knowledge | Recap of complex permanent tissue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Objective                          | Students will be able to understand the structure of epidermis and its significance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dimensions of Learning             | DOL 1,2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Learning Outcomes                  | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>Classify different type of plant tissue.</li> <li>Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</p> <p><b>Create</b> flow chart on the basis of different tissue structure and functions.</p> <p>Answer knowledge, understanding, application and diagrammatic skill based questions based on the topic.</p> |
| Transaction Methodology            | <b>Think-pair -share- Bark of tree</b> - Teacher will introduce the topic with the help of ppt, student will think and reflect for a minute and then share it in pair.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Closure                            | Questioning- <i>Pose, pause, pounce and bounce</i> - Teacher will prepare a list of question about the animal tissues. ( <b>Critical thinking, Communication</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Self Study, Home Work, Assignments | Exemplar question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Assessments                        | Peer assessment of one minute test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Marks                              | The weightage would be given by CBSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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| Topic | <b>Day 9: Subtopic- Epithelial tissue(squamous and columnar epithelium)</b> |
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| Class Transaction                                                                                                          | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pre-requisite for the course                                                                                               | This lesson requires basic knowledge of tissues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Assessment of qualifying knowledge                                                                                         | Recap of previous day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Objective                                                                                                                  | Students will be able to understand the structure and functions of different epithelial tissue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimensions of Learning                                                                                                     | DOL 3 and 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Learning Outcomes                                                                                                          | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p><b>9.</b> Appreciate the importance of tissue and different types of tissues <b>collaboratively</b>.</p> <p>10. Use analytical skills to <b>critically</b> visualize the different tissues and the concepts learnt in everyday problems.</p> <p>11. Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</p> <p>12. <b>Create</b> flow chart on the basis of different tissue structure and functions.</p> <p>13. Answer knowledge, understanding, application and diagrammatic skill based questions based on the topic.</p> |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher</p> <p><b>Activity- Collaborative work-Students will sit in group and teacher will ask them to develop a table on different type of epithelial tissue.</b></p> <p><b>Instructional Input:</b>Silent reading of NCERT and following questions will be asked</p> <ul style="list-style-type: none"> <li>• How many types of animal tissues are there?</li> <li>• Where are epithelial tissue present?</li> <li>• Classify them on the basis of their location ,structure and function.</li> </ul> <p><i>Introduction of the topic-</i> PPT and Digital Content would be shared</p> <p><i>Guided practice followed by Independent Practice-</i> NCERT questions to be</p>                                                                                                                  |

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|                                          | discussed in the classroom. |
| Closure                                  | <b>Mind map</b>             |
| Self Study,<br>Home Work,<br>Assignments | NCERT QUESTION              |
| Assessments                              | One minute peer assessment  |

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| Topic                                                         | <b>Day 10: Subtopic- Epithelial tissue(cuboidal and glandular epithelium)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Class Transaction                                             | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pre-requisite for the course                                  | This topic requires basic knowledge of animal tissue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assessment of qualifying knowledge                            | Warming up question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Objective                                                     | Students will be able to understand the structure and functions of different epithelial tissue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Dimensions of Learning                                        | DOL 1, 2,3 and 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Learning Outcomes                                             | <p><u><b>KNOWLEDGE</b></u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u><b>SKILLS</b></u>- <i>Students would be able to</i></p> <p>14. Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</p> <p>15. <b>Create</b> flow chart on the basis of different tissue structure and functions.</p> <p>16. Answer knowledge, understanding, application and diagrammatic skill based questions based on the topic.</p> |
| Transaction Methodology<br>(The teacher can use the mentioned | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher</p> <p><b>Activity- Collaborative work</b>-<b>Students will sit in group and teacher will ask them to develop a table on different type of epithelial tissue.</b></p> <p><b>Instructional Input:</b>Silent reading of NCERT and following questions</p>                                                                                                                                                                                                                                                                                               |

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| techniques, wherever applicable, and can use any other too.) | will be asked <ul style="list-style-type: none"> <li>• How many types of animal tissues are there?</li> <li>• Where are epithelial tissue present?</li> <li>• Classify them on the basis of their location ,structure and function.</li> </ul> |
| Closure                                                      | Flow chart on epithelial tissue                                                                                                                                                                                                                |
| Self Study, Home Work, Assignments                           | NCERT Questions                                                                                                                                                                                                                                |
| Assessments                                                  | Assessment of notebook                                                                                                                                                                                                                         |

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| Topic                              | <b>Day 11 : Connective tissue(Blood ,areolar and adipose tissue)</b>                                                                                                                                                                                                                                                                               |
| Class Transaction                  | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                              |
| Pre-requisite for the course       | This topic requires basic knowledge of blood and other tissues                                                                                                                                                                                                                                                                                     |
| Assessment of qualifying knowledge | Warming up                                                                                                                                                                                                                                                                                                                                         |
| Objective                          | Students will be able to classify different type of connective tissue.                                                                                                                                                                                                                                                                             |
| Dimensions of Learning             | DOL 1,3 and 4                                                                                                                                                                                                                                                                                                                                      |
| Learning Outcomes                  | <u>KNOWLEDGE</u> - <i>Students will be able to</i> <ul style="list-style-type: none"> <li>• Classify different type of connective tissue.</li> </ul><br><u>SKILLS</u> - <i>Students would be able to</i><br><br>Built <b>character</b> amongst themselves by discussing / <b>communicating</b> the importance of blood tissue in maintaining life. |
| Transaction Methodology            | Jigsaw strategy on connective tissue                                                                                                                                                                                                                                                                                                               |
| Closure                            | Mind map                                                                                                                                                                                                                                                                                                                                           |

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| Self Study,<br>Home Work,<br>Assignments | Exemplar question |
| Assessments                              | Oral quiz         |

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| Unit                                                                                                                                               | <b>Day 12 : Connective tissue( bone and cartilage)</b>                                                                                                                                                                                                                                                                                                   |
| Class<br>Transaction                                                                                                                               | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                    |
| Pre-requisite for<br>the course                                                                                                                    | This topic requires basic knowledge of blood and other tissues                                                                                                                                                                                                                                                                                           |
| Assessment of<br>qualifying<br>knowledge                                                                                                           | Warming up                                                                                                                                                                                                                                                                                                                                               |
| Objective                                                                                                                                          | Students will be able to classify different type of connective tissue.                                                                                                                                                                                                                                                                                   |
| Dimensions of<br>Learning                                                                                                                          | DOL 1,3 and 4                                                                                                                                                                                                                                                                                                                                            |
| Learning<br>Outcomes                                                                                                                               | <p><u>KNOWLEDGE</u>- <i>Students will be able to</i></p> <ul style="list-style-type: none"> <li>Classify different type of connective tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</p> |
| Transaction<br>Methodology<br>(The teacher can<br>use the<br>mentioned<br>techniques,<br>wherever<br>applicable, and<br>can use any<br>other too.) | Jigsaw strategy on connective tissue                                                                                                                                                                                                                                                                                                                     |
| Resources                                                                                                                                          | Mind map                                                                                                                                                                                                                                                                                                                                                 |
| Self Study,<br>Home Work,<br>Assignments                                                                                                           | Exemplar question                                                                                                                                                                                                                                                                                                                                        |

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| Assessments | Oral quiz |
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| Topic                              | <b>Day 13 : Muscular tissue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Class Transaction                  | (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pre-requisite for the course       | This lesson requires basic knowledge of muscular tissue which they already learnt in previous class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assessment of qualifying knowledge | Recap of previous day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Objective                          | Students will be able to classify different type of muscle fibre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dimensions of Learning             | DOL 2,3 and 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Learning Outcomes                  | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ul style="list-style-type: none"> <li>• Explain the difference between plant and animal tissue</li> <li>• Classify different type of plant tissue.</li> <li>• Explain the structure of plant and animal tissue.</li> </ul> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <p>17. Built <b>character</b> amongst themselves by discussing /<b>communicating</b> the importance of blood tissue in maintaining life.</p> <p>18. <b>Create</b> flow chart on the basis of different tissue structure and functions.</p> <p>19. Answer knowledge, understanding, application and diagrammatic skill based questions based on the topic.</p>                                                                                                                                                               |
| Transaction Methodology            | <p>Transaction would proceed in the following manner-</p> <p><b>Teaching strategy</b>(WIPRO)–Discussion, think pair share, compare contrast matrix, explanation by teacher,brainstroming</p> <p><b>Competency- Collaborative</b></p> <p><b>Activity: Collaborative group work</b>-Students will sit in group and develop a mind map for muscle fibreson the basis of their location, structure and function and teacher will ask following question to check their understanding</p> <ul style="list-style-type: none"> <li>• How many types of muscle tissue are there?</li> <li>• Where are these tissue present?</li> <li>• What will happen if some injury is being done to these tissues?</li> </ul> <p><i>Introduction of the topic</i>- PPT and Digital Content would be shared</p> <p><i>Guided practice followed by Independent Practice</i>- NCERT questions to be</p> |

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|                                          | discussed in the classroom. |
| Closure                                  | Comparison of muscle fibre  |
| Self Study,<br>Home Work,<br>Assignments | NCERT Question              |
| Assessments                              | HW note book                |

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| Topic                                    | <b>Day 14: Subtopic- Nervous Tissue</b>                                                                                                                       |
| Class<br>Transaction                     | (approx. 40 min each)                                                                                                                                         |
| Pre-requisite for<br>the course          | This lesson requires basic knowledge of nervous tissue                                                                                                        |
| Assessment of<br>qualifying<br>knowledge | Recap of previous day                                                                                                                                         |
| Objective                                | Students will be able to explain the structure of nervous tissue                                                                                              |
| Dimensions of<br>Learning                | DOL 2,3 and 4                                                                                                                                                 |
| Learning<br>Outcomes                     | <u>KNOWLEDGE</u> - <i>Students will know and understand</i> <ul style="list-style-type: none"> <li>• Explain the nervous tissue</li> </ul>                    |
| Transaction<br>Methodology               | Transaction would proceed in the following manner-<br><br><b>Teaching strategy</b> (WIPRO)–Discussion, think pair share, explanation by teacher,brainstroming |
| Closure                                  | By questions based on nervous tissue                                                                                                                          |
| Self Study,<br>Home Work,<br>Assignments | Exemplar question                                                                                                                                             |
| Assessments                              | One minute test                                                                                                                                               |