

**DELHI PUBLIC SCHOOL GHAZIABAD**  
**CLASS – XII**  
**CONSOLIDATED LESSON PLAN**  
**CHAPTER-11**

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| Unit                                                                                                                       | Alcohol,phenol and Ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Class Transaction                                                                                                          | Total:09 periods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pre-requisite for the course                                                                                               | This lesson requires<br>Discuss the reactions involved in the preparation of alcohols<br>Discuss the reactions involved in the preparation of phenols<br>Discuss the reactions involved in the preparation of Ether<br>physical properties and of alcohols, phenols and ethers with their structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Assessment of qualifying knowledge                                                                                         | <ol style="list-style-type: none"> <li>1. Written test</li> <li>2. HW notebook</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Objective                                                                                                                  | Students would be able to understand the types of reactions involved for the preparation and properties of Alcohol,phenol and Ether                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Learning Outcomes                                                                                                          | <p><u>KNOWLEDGE</u>- <i>Students will know and understand</i></p> <ol style="list-style-type: none"> <li>1. preparation of alcohols from (i) alkenes (ii) aldehydes, ketones and carboxylic acids.and their properties</li> <li>2. preparation of phenols from (i) haloarenes (ii) benzene sulphonic acids<br/>           (iii) diazonium salts and (iv) cumene; and their properties</li> <li>3. Preparation of ether from alcohol,alkyl halide and their properties</li> </ol> <p><u>SKILLS</u>- <i>Students would be able to</i></p> <ol style="list-style-type: none"> <li>1. Understand and differentiate between Alcohol ,Phenol</li> <li>2. Solve problems based on conversions .</li> <li>3. Learn reasons</li> <li>4. Solve questions based on distinguish between organic pairs</li> </ol> |
| Transaction Methodology<br>(The teacher can use the mentioned techniques, wherever applicable, and can use any other too.) | Transaction would proceed in the following manner-<br><br><i>Brain Storming</i> -The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying.<br><b>Communication and brainstorming:</b> <i>Students develop effective communication skills and learn to put across their views.</i>                                                                                                                                                                                                                                                                                                                                  |

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|                                    | <p><b>Introduction of the topic-</b> ppt and Digital Content would be <b>made by students.</b></p> <p><b>Collaboration:</b> <i>Students learn to work in collaboration to achieve a common goal. They learn to manage time and divide and delegate work and responsibilities.</i></p> <p><b>Creativity and innovation</b><br/> <i>Students use the knowledge given in class and create projects and models and perform research to give innovative solutions to the problem studied. Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom. : Helps students to think critically and solve the given problem</i></p> <p><i>Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom.</i></p> <p><b>Techniques to be used:</b></p> <p>Daily Practice Problem<br/> MCQ<br/> Peer Assessment</p> <p><b>Character and citizenship:</b> <i>Group discussion helps to develop interpersonal skills, respecting and valuing views of others</i></p> <p>HOTS<br/> Any Other</p> |                     |  |             |                |                             |                 |                                |          |                              |                |
| Resources                          | <p>Text Book:<br/> NCERT text book for Mathematics</p> <p>Reference Book</p> <ol style="list-style-type: none"> <li>1. CBSE Exemplar</li> <li>2. DPSG Spiral</li> <li>3. Previous year questions</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |  |             |                |                             |                 |                                |          |                              |                |
| Self Study, Home Work, Assignments | <p><b>Independent Practice:</b> Students would do the given questions in their H.W. notebooks as mentioned in the monthly planner.</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                        | <table> <tr> <td><b>3 UNIT TESTS</b></td><td></td></tr> <tr> <td>UNIT TEST –</td><td>30, 35,35Marks</td></tr> <tr> <td><b>MID TERM EXAMINATION</b></td><td><b>70 Marks</b></td></tr> <tr> <td><b>HALF YEARLY EXAMINATION</b></td><td>70 Marks</td></tr> <tr> <td><b>PRE BOARD EXAMINATION</b></td><td><b>70Marks</b></td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>3 UNIT TESTS</b> |  | UNIT TEST – | 30, 35,35Marks | <b>MID TERM EXAMINATION</b> | <b>70 Marks</b> | <b>HALF YEARLY EXAMINATION</b> | 70 Marks | <b>PRE BOARD EXAMINATION</b> | <b>70Marks</b> |
| <b>3 UNIT TESTS</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |  |             |                |                             |                 |                                |          |                              |                |
| UNIT TEST –                        | 30, 35,35Marks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |  |             |                |                             |                 |                                |          |                              |                |
| <b>MID TERM EXAMINATION</b>        | <b>70 Marks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |  |             |                |                             |                 |                                |          |                              |                |
| <b>HALF YEARLY EXAMINATION</b>     | 70 Marks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |  |             |                |                             |                 |                                |          |                              |                |
| <b>PRE BOARD EXAMINATION</b>       | <b>70Marks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |  |             |                |                             |                 |                                |          |                              |                |

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| 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> <p><i>For higher scoring students:</i></p> <ul style="list-style-type: none"> <li>• Spiral Level 3 questions to be done</li> <li>• Encouragement for referring other resources</li> </ul> <p><i>For lower scoring students:</i></p> <ul style="list-style-type: none"> <li>• Spiral Level 1 to be completed</li> <li>• Peer help to be provided</li> <li>• Provide grade-up classes(PCC)</li> </ul> <p><i>For differently abled students:</i></p> <ul style="list-style-type: none"> <li>• Ignore spelling mistakes and formulae, if not written</li> <li>• Call parents at regular intervals</li> <li>• Provide grade-up classes</li> <li>• Encourage and motivate them at every level.</li> </ul> |
| Marks                          | The weightage would be given by CBSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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**DELHI PUBLIC SCHOOL GHAZIABAD**  
**CLASS XII**  
**LESSON PLAN**  
**Unit-11**  
**Alcohols, Phenols and Ethers**  
**(Based on DOL)**

Anticipatory Set: Facilitator introduces the topic **Alcohols, Phenols and Ethers**

Objective:

- 
- Given questions based on the topic. learners will be able to do Conversions, Reasoning, Name reactions
  - To make students able to solve questions based on the topics to be discussed
- 

**Techniques to be used:**

- Peer Assessment
- Quiz
- Case Study
- PPT

**Materials required and Teaching Aids:** Smart Class Modules, blackboard, chalk, duster, NCERT book

**Strategy**

Student – teacher interaction, collaborative learning, independent practice

**DAY 1**

- The students will be shown a PPT and will be made aware of the IUPAC names and classification of **Alcohols, Phenols**.
- The students will be told about the uses of the compounds in day to day life.
- The students would be given practice on simple questions based on IUPAC names of **Alcohols, Phenols and Ethers**

**GUIDED PRACTICE**

The students will solve selected questions from NCERT book of ex. 11.1 to 11.3 in their notebook in the class with the help of their teacher. (CRITICAL THINKING)

**SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some questions will be asked based on the day's teaching and doubts will be cleared. (COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of ex. 11.1 to 11.3 in assignment copy

**DAY 2**

\*The students will be made to learn the Methods to prepare **Alcohols**.

\*discuss the reactions involved in the preparation of alcohols from

(i) alkenes (ii) aldehydes, ketones and carboxylic acids; .

\*Questions from NCERT will be discussed along with the discussion of solved examples given.

**GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher. (CRITICAL THINKING)

**SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some questions will be asked based on the day's teaching and doubts will be cleared.

Oral question answer session: (COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their Assignment notebook

**DAY 3**

\*The students will be explained Methods to discuss the reactions involved in the preparation of phenols from (i) haloarenes (ii) benzene sulphonic acids (iii) diazonium salts and (iv) cumene;

\*The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

**GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher.

(CRITICAL THINKING)

**SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some questions will be asked based on the day's teaching and doubts will be cleared.

(COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the left over questions of exercise in their assignment notebook.

Students will perform chemical test to distinguish alcohol and phenol in laboratory in group

(COLLABORATION)

#### **DAY 4**

- The students will be explained discuss the reactions involved in the preparation of phenols from (i) haloarenes (ii) benzene sulphonic acids (iii) diazonium salts and (iv) cumene;
- The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

#### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher.(CRITICAL THINKING)

#### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

(COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.

#### **DAY 5**

\* The students will be explained discuss the reactions for preparation of ethers from

(i) alcohols and (ii) alkyl halides and sodium alkoxides/aryloxides;.

\* The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

#### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher.(CRITICAL THINKING)

#### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

(COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.

#### **DAY 6**

\*The students will be explained the chemical properties of correlate physical properties of alcohols, phenols and ethers with their structures;

\*The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

#### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher.

#### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.

#### **DAY 7**

\*Mechanism of hydration of alkenes and dehydration of alcohols

\*The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher. (CRITICAL THINKING)

### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

Discussion of reasoning question with the students (COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.

### **DAY 8**

\*The students will be explained chemical reactions of the three classes of compounds on the basis of their functional groups.

\*The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher. (CRITICAL THINKING)

### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

PEER LEARNING :Students will help weak students in solving brain storming questions

(CHARACTER, CITIZENSHIP)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.

### **DAY 9**

- Compounds of alcohols and phenols and ethers.
- The exercise would be undertaken, questions from NCERT will be discussed along with the discussion of solved examples given.

### **GUIDED PRACTICE**

The students will solve selected questions from NCERT book of exercise in their notebook in the class with the help of their teacher. (CRITICAL THINKING)

### **SUMMARIZE AND CHECK FOR UNDERSTANDING**

Some conceptual questions will be asked based on the day's teaching and doubts will be cleared.

(COMMUNICATION)

**INDEPENDENT PRACTICE** – Students will do the leftover questions of exercise in their assignment notebook.