

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS – XII
CONSOLIDATED LESSON PLAN
CHAPTER-10: Haloalkanes and Haloarenes

Unit	Haloalkanes and Haloarenes
Class Transaction	Total: 09 periods
Pre-requisite for the course	This lesson requires 1. Basic knowledge of organic chemistry 2. Knowledge of IUPAC nomenclature
Assessment of qualifying knowledge	1. Written test 2. HW notebook
Objective	Students would be able to correlate the structures of haloalkanes and haloarenes with various types of reaction
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. Preparation and reaction of haloalkanes and haloarenes 2. Use of stereochemistry to understand the mechanism 3. Application of organometallic compound 4. Environmental effect of poly halogens compound <u>SKILLS</u>- <i>Students would be able to</i> 1. Understand the mechanism of nucleophilic substitution 2. Solve problems based on chemical reaction of haloalkanes 3. Questions based on conversions 4. Solve questions pertaining to chemical equation
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- <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. Communication and brainstorming: <i>Students develop effective communication skills and learn to put across their views.</i> Introduction of the topic- ppt and Digital Content would be made by students. Collaboration:<i>Students learn to work in collaboration to achieve a</i>

	<i>common goal. They learn to manage time and divide and delegate work and responsibilities.</i> <i>Creativity and innovation</i> <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> <i>Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom.</i> Techniques to be used: Daily Practice Problem MCQ Peer Assessment <i>Character and citizenship:</i> <i>Group discussion helps to develop interpersonal skills, respecting and valuing views of others</i> HOTS Any Other								
Resources	Text Book: NCERT text book for Mathematics Reference Book 1. CBSE Exemplar 2. DPSG Spiral 3. Previous year questions								
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks as mentioned in the monthly planner. 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.								
Assessments	<table> <tr> <td>3 UNIT TESTS</td><td>30,35,35 marks respectively</td></tr> <tr> <td>MID TERM EXAMINATION</td><td>70 Marks</td></tr> <tr> <td>HALF YEARLY EXAMINATION</td><td>70 Marks</td></tr> <tr> <td>PRE BOARD EXAMINATION</td><td>70 Marks</td></tr> </table>	3 UNIT TESTS	30,35,35 marks respectively	MID TERM EXAMINATION	70 Marks	HALF YEARLY EXAMINATION	70 Marks	PRE BOARD EXAMINATION	70 Marks
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Addressing	Due to various social backgrounds and multiple intelligences, the								

Classroom Diversity	classroom might be a diverse arena. The following techniques can be used for various groups: <i>For higher scoring students:</i> • Spiral Level 3 questions to be done • Encouragement for referring other resources <i>For lower scoring students:</i> • Spiral Level 1 to be completed • Peer help to be provided • Provide grade-up classes(PCC) <i>For differently abled students:</i> • Ignore spelling mistakes and formulae, if not written • Call parents at regular intervals • Provide grade-up classes • Encourage and motivate them at every level.
Marks	The weightage would be given by CBSE.

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS XII
LESSON PLAN
Unit-10
Haloalkanes and Haloarenes
(Based on DOL)

Anticipatory Set: Facilitator introduces the topic **Haloalkanes and Haloarenes**

Objective:

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- 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
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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 **Haloalkanes and Haloarenes**.
- 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 Haloalkanes and Haloarenes.

GUIDED PRACTICE

The students will solve selected questions from NCERT book 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 ex. in assignment copy

DAY 2

- The students will be made to learn the Methods to prepare **Haloalkanes** . .
- 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.

PEER LEARNING : Students will help weak students in solving brain storming questions (CHARACTER, CITIZENSHIP)

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

DAY 3

- The students will be explained Methods to prepare **Haloalkanes** .
- 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.

Oral question answer session (COMMUNICATION)

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

PEER LEARNING: Students will help weak students in solving brain storming questions (CHARACTER, CITIZENSHIP)

DAY 4

The students will be explained the nature of C -X bond, physical and chemical properties;

- 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.

Oral question answer session (COMMUNICATION)

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

DAY 5

The students will be explained chemical properties of haloalkanes

- 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.

Oral question answer session (COMMUNICATION)

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

DAY 6

The students will be explained explain the mechanism SN1 and SN2.

- 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 7

The students will learn about the properties of haloarenes

- 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.

Oral question answer session (COMMUNICATION)

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

DAY 8

The students will be explained the **Haloarenes**: Nature of C -X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).

- 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.

Oral question answer session (COMMUNICATION)

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

DAY 9

The students will be explained the Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

- 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)

Student will prepare power point presentation in group on the properties of alkyl halide (CREATIVITY, COLLABORATION)

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.