

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS – XII
CONSOLIDATED LESSON PLAN
CHAPTER-12

Unit	Aldehydes, Ketones and Carboxylic Acids
Class Transaction	Total:09 periods
Pre-requisite for the course	This lesson requires Describe the important methods of preparation and reactions of these classes of compounds. Physical properties and chemical reactions of aldehydes, ketones and carboxylic acids, with their structures. Explain the mechanism of a few selected reactions of aldehydes and ketones
Assessment of qualifying knowledge	1. Written test 2. HW notebook
Objective	Students would be able to understand the types of reactions involved for the preparation and properties of Alcohol,phenol and Ether
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. Preparation of Aldehyde and ketones from alcohol ,alkenes 2. preparation of carboxylic acids from alcohol ,aldehydes and ketones <u>SKILLS</u>- <i>Students would be able to</i> 1. Understand and differentiate between Aldehydes and ketones With the help of properties 2. Solve problems based on conversions . 3. Learn reasons 4. Learn Name reactions
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. <i>Communication and brainstorming: 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: Students learn to work in collaboration to achieve a common goal. They learn to manage time and divide and delegate work and responsibilities. Creativity and innovation 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 Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom. Techniques to be used: Daily Practice Problem MCQ Peer Assessment Character and citizenship: Group discussion helps to develop interpersonal skills, respecting and valuing views of others 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	3 UNIT TESTS MID TERM EXAMINATION HALF YEARLY EXAMINATION PRE BOARD EXAMINATION	30,35,35Marks 70 Marks 70 Marks 70Marks

Addressing Classroom Diversity	Due to various social backgrounds and multiple intelligences, the 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.

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CLASS XII
LESSON PLAN
Unit-12
Aldehydes, Ketones and Carboxylic Acids
(Based on DOL)

Anticipatory Set: Facilitator introduces the topic **Aldehydes, Ketones and Carboxylic Acids**

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 **Aldehydes, Ketones and Carboxylic Acids**.
- 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 **Aldehydes, Ketones and Carboxylic Acids**

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 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 **Aldehydes, Ketones**

*discuss the reactions involved in the preparation of **Aldehydes, Ketones** from

(i) alcohols (ii) *hydrocarbons*. ii) *nitriles and esters*

*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 physical and chemical properties of aldehydes and ketones

*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.

DAY 4

The students will be explained chemical properties of aldehydes and ketones

- 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 mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes: uses

* 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 preparation and reactions of Carboxylic acids.

*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

* acidic nature, methods of preparation, physical and chemical properties of carboxylic acids

*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 8

*The students will be explained chemical properties of carboxylic acids

*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 9 Uses of aldehydes and ketones

- 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.