

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS – XII
CONSOLIDATED LESSON PLAN
CHAPTER-9: Coordination compounds

Unit	Coordination Compound
Class Transaction	Total: 5 periods
Pre-requisite for the course	This lesson requires 1. Basic knowledge of Valence bond theory 2. Difference between double salt and complex salt 3. Knowledge of hybridization and basic nature of transition element
Assessment of qualifying knowledge	1. Written test 2. HW notebook
Objective	Students would be able to understand the chemistry of Co-ordination compounds], Isomerism and naming of coordination compounds
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. postulates of Werner's theory of coordination 2. know the meaning of the terms: coordination entity, central atom/ion, ligand, coordination number, coordination sphere, coordination polyhedron, oxidation number homoleptic and heteroleptic 3. Rules of nomenclature of coordination compound 4. Crystal field theory and valence bond theory <u>SKILLS</u>- <i>Students would be able to</i> 1. Name coordination compound according to IUPAC rules 2. Predict the behavior of co-ordination compound on the basis of valence bond theory 3. Recognize and classify the various isomers 4. Solve questions pertaining to structure and properties
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: 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	<table> <tr> <td>3 UNIT TESTS</td><td>Marks each</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	Marks each	MID TERM EXAMINATION	70 Marks	HALF YEARLY EXAMINATION	70 Marks	PRE BOARD EXAMINATION	70 Marks
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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.

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS XII
LESSON PLAN
Unit-9
Coordination Compounds
(Based on DOL)

Anticipatory Set: Facilitator introduces the topic **Coordination Compound**

Objective:

- Given questions based on the topic. learners will be able to understand the use of extraction of elements
- 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

=>appreciate the postulates of Werner's theory of coordination compounds

The students would be given practice on simple questions based on above topic

GUIDED PRACTICE

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

Students will solve Problem solving questions (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. in assignment copy

DAY 2

- know the meaning of the terms: coordination entity, central atom/ion, ligand, coordination number ,coordination sphere, coordination polyhedron, oxidation number ,homoleptic and heteroleptic
- 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.

Students will solve Problem solving questions (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 their Assignment notebook

DAY 3

=>learn the rules of nomenclature of coordination compounds

- Explain Valence Bond and Crystal Field theories
- 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.

Students will solve brain storming questions (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.

DAY 4

=>write the formulas and names of mononuclear coordination compounds

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

define different types of isomerism in coordination compounds

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.

Practice of 1.REASONING QUESTIONS

2.SHORT NOTES

3 .DESCRIPTION BASED QUESTIONS