

DELHI PUBLIC SCHOOL GHAZIABAD
CLASS – XI
CONSOLIDATED LESSON PLAN
CHAPTER-1: SOME BASIC CONCEPTS OF CHEMISTRY

Unit	SOME BASIC CONCEPTS OF CHEMISTRY
Class Transaction	Total: 7 periods
Pre-requisite for the course	This lesson requires Basic knowledge the role of chemistry in different spheres of life; Knowledge of basic classify different substances into elements, compounds and mixtures;
Assessment of qualifying knowledge	1. Written test 2. HW notebook
Objective	Students would be able to understand * Appreciate significance of atomic mass, average atomic mass, molecular mass and formula mass; *Perform the stoichiometric calculations.
Learning Outcomes	<u>KNOWLEDGE-</u> <i>Students will know and understand</i> 1. Describe the terms – mole and molar mass. 2. Explain various laws of chemical combination, 3. Differentiate between precision and accuracy <u>SKILLS-</u> <i>Students would be able to</i> 1. Understand the molarity and molality 2. Solve problems based on mass percentage of different elements in compound. 3. Reasoning questions based mole fraction. 4. Solve questions of molecular mass and empirical formula mass determination.
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:</i> <i>Students develop effective communication skills and learn to put across their views.</i> <i>Introduction of the topic-</i> 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 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 QUIZ						
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>3UNIT TESTS</td><td>30,35,35 Marks</td></tr> <tr> <td>HALF YEARLY EXAMINATION</td><td>70 Marks</td></tr> <tr> <td>ANNUAL EXAMINATION</td><td>70 Marks</td></tr> </table>	3UNIT TESTS	30,35,35 Marks	HALF YEARLY EXAMINATION	70 Marks	ANNUAL EXAMINATION	70 Marks
3UNIT TESTS	30,35,35 Marks						
HALF YEARLY EXAMINATION	70 Marks						
ANNUAL EXAMINATION	70 Marks						
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 lowering 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.

LHI PUBLIC SCHOOL GHAZIABAD
CLASS XI
LESSON PLAN
Unit-1
Some Basic Concepts of Chemistry
(Based on DOL)

Anticipatory Set: Facilitator introduces the topic **Some Basic Concepts of Chemistry**

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 laws of chemical combination, Dalton's atomic theory: concept of elements
- The students would be given practice on simple questions based on laws of chemical combination, Dalton's atomic theory: concept of elements
-

GUIDED PRACTICE

The students will solve selected questions from NCERT book of ex. 1.17 to 1.26 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. 10.1 to 10.3 in assignment copy

DAY 2

The students will be made to learn to classify different substances into elements, compounds and mixtures; .

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

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

- **DAY 3 – mole and molar mass; determine significant figures; convert physical quantities from one system of units to another;**

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.

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

DAY 4

**The students will be explained the describe the terms molarity ,
.calculate the mass per cent of different elements constituting a compound;**

- 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. Group discussion on the topic taught (COMMUNICATION)

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

DAY 5

- **determine empirical formula and molecular formula for a compound from the given experimental data**

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. Group discussion on the topic taught (COMMUNICATION)

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

DAY 6 molality, mole fraction

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. Group discussion on the topic taught (COMMUNICATION)

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

DAY 7

Limiting reagent, **perform the stoichiometric calculations.**

- 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. Group discussion on the topic taught (COMMUNICATION)

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

