

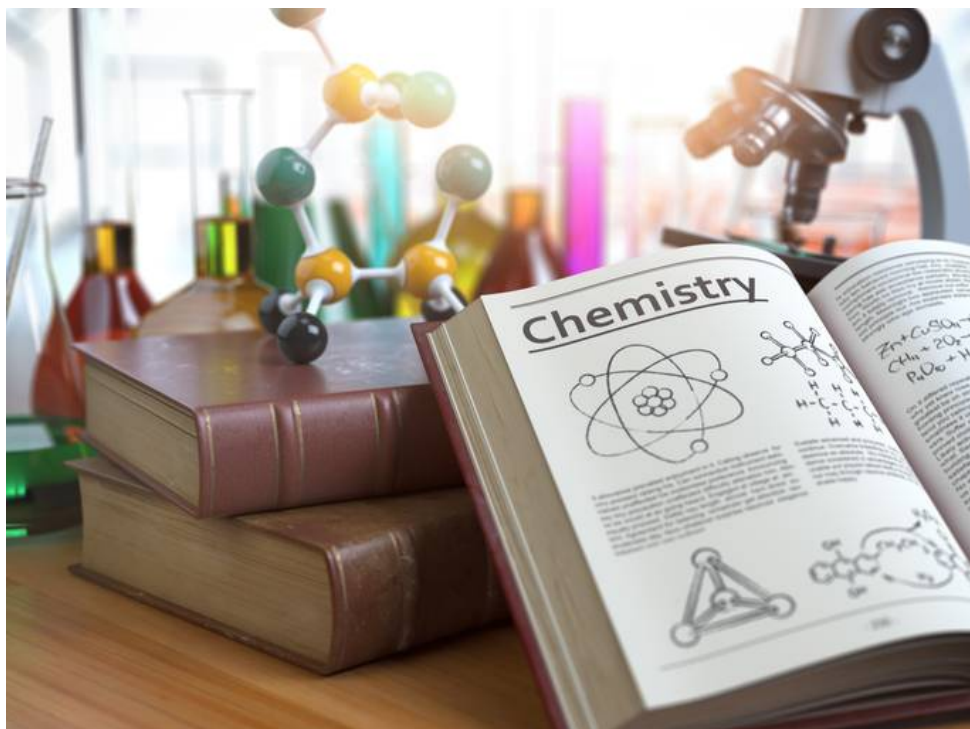
Chemistry Topics for Exam Preparation

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Gitumoni Baruah

Read complete details on important Chemistry topics, preparation tips for various competitive exams below.



Chemistry Topics for Exam Preparation: Chemistry is a subdiscipline of science for studies of various atoms,



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molecules, crystals, and other aggregates of matter whether in isolation or combination, which incorporates the concepts of energy and entropy in relation to the spontaneity of chemical processes. Chemistry has been divided into five main subdisciplines: Organic, Analytical, Physical, Inorganic, and Biochemistry. Candidates, aspiring to appear in any of the engineering entrance tests, must have studied the subject from an exam point of view as well as in Class 11 and 12.

The main topics in Chemistry include acids and bases, atomic structure, the periodic table, chemical bonds, and chemical reactions. The level of questions in Chemistry subjects depends on the syllabus of the exam. However, the Chemistry subject in most of the exams is considered as easy to moderate in terms of difficulty level. Chemistry is sometimes difficult as it is a formula-based subject.

To assist in the preparation for various exams, Shiksha has compiled important Chemistry topics, preparation tips, and more on this page.

What are the main branches of Chemistry?

- Organic



- Analytical
- Physical
- Inorganic
- Biochemistry

Important Chemistry Topics for Exam Preparation

Candidates who are preparing for any competitive exams must go through the following topics:

Acids, Bases, and pH	Atoms and Molecules
Periodic Table	Polymers
Equations and Stoichiometry	Bio-Molecules
Physical Chemistry	Chemical Bonding
Chemistry In Everyday Life	Thermochemistry

Main Chemistry Topics in Class 11 and 12

Below is the list of Chemistry preparation topics for Class 11 and 12 exams.



Class 11 Topics

- Some basic concepts of chemistry
- [Structure of atom](#)
- Classification of elements & periodicity in properties
- Chemical bonding and molecular structure
- [States of matter](#)
- [Thermodynamics](#)
- [Equilibrium](#)
- [Redox reactions](#)

Class 12 Topics

- The Solid State Solutions
- Electrochemistry
- Chemical Kinetics
- Surface Chemistry
- General Principles and Processes of Isolation of Elements
- [The p-Block Elements](#)
- The d and f Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes



Exam Preparation for Chemistry

Time management & study plan: Managing time is one of the most important parts, it needs to be done wisely. While preparing for exams, students should divide their time for each of the subjects equally. Students should set a day, week, and monthly based target timetable. Remember to include all the topics and devote time to every subject equally.

Strengthen concepts: We know if the concepts are strong then it is easy to deal with a variety of questions. Students need to work on their understanding skills. Do not neglect the areas in which a candidate is weak. One is advised to keep a separate time slot for concepts in which they are weak. Another one of the big Preparation tips for CBSE Class 12 Chemistry 2021 is group study.

Revise: After completing each topic from the syllabus of the exam, candidates are advised to keep at least one month or two for revision. However, do not spend much time on it as it might impact your preparation. Revision at this stage should be quick and try to cover the syllabus with covering each chapter. Take help from the short notes that you made during preparation.



Make short notes: While preparing for the exam, make short notes on a regular basis. This will be helpful at the time of revision. Aspirants can write short forms, formulas, or abbreviations so that they need not go through the entire syllabus again. This will also ensure that all the topics are covered and not even a single topic has to be compromised. The short notes should be crisp and in bulleted points as topics prepared in such a manner will be easier to notice and therefore convenient during revision.

Include stress busters: It is not a very good idea to pressurize during preparation. Include stress busters like watching a favorite television show, going to a movie, playing favorite indoor or outdoor games. Always remember, stress will never gain marks in the exam, so better try avoiding it.

Tips for Chemistry exam day: Firstly candidates should read the question paper carefully thoroughly. Only those questions should be answered in which the student is absolutely sure. Students often answer questions on Organic Chemistry towards the end as they are more complex in nature as compared to Inorganic and Physical Chemistry.



FAQs regarding Chemistry Topics for Exam Preparation

Q. How do I prepare Chemistry for competitive exams?

A. Chemistry is one of the important subjects for most of the competitive exams like JEE Main, JEE Advanced, UPSC, IBPS, SSC etc. To prepare for this subject solve as many mock tests as you can and clear your basics. Refer to some of the best books and be well acquainted with the syllabus and pattern.

Q. What are the interesting topics in Chemistry?

A. Below are some of the interesting topics in Chemistry subject:

- Bonds
- Reactions
- Stoichiometry
- Solutions
- Acids & Bases
- Thermodynamics
- Organic Chemistry



Q. How do you get full marks in Chemistry?

A. Here are some helpful study tips for students to prepare for Chemistry Boards and competitive exams:

1. Cover most of the chapters
2. Focus on numerical, name reactions, and products
3. Focus on NCERT textbooks
4. Do not ignore the Exemplar
5. Keep in mind the exam pattern

Q. Is 12th Chemistry easy?

A. Many students might find CBSE Class 12 Chemistry difficult. The syllabus is huge, which poses difficulty during revision within a short span of time, especially for students who have not studied all the CBSE Class 12 Chemistry chapters earlier and are not clear on the fundamentals.

Q. Which book is best to study Chemistry for Class 11 and 12?

A. NCERT is the best book to prepare for Chemistry. Other than that, students can also refer books like the following:



Class 12 Chemistry Best Books:

Class 12 Chemistry Books	Authors
S.C. Kheterpal, S.N. Dhawan, P.N. Kapil	J. D. Lee
Modern's ABC of Chemistry Class - 12 (Part 1 & 2)	S. P. Jauhar
Modern Approach to Chemical Calculations	R.C. Mukerjee
SC Chemistry Class 12: Chemistry Class XII	OP Tandon, A.K. Virmani, A.S. Singh
Pradeep's New Course Chemistry for class XII (Vol I and II)	S.C. Kheterpal, S.N. Dhawan, P.N. Kapil
CBSE Chapterwise Solutions - Chemistry (Class 12) : A Collection of Fully Solved Questions Asked from 2014 - 2008 Examination Arranged	Purnima Sharma

Class 11 Chemistry Best Books:



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Class 11 Chemistry Books	Authors
Physical Chemistry	OP Tandon
ABC of Chemistry	Modern Publications

Q. How to study Chemistry for JEE Main?

A. Few simple steps to be followed by the candidates to score better marks in Chemistry:

- Focus on all 3 parts – Organic, Inorganic and Physical Chemistry.
- The periodic table is a must
- Understand the complete reaction mechanism
- Learn formulas thoroughly
- Pay extra attention to d- block elements, f-block elements and coordination compounds

Q. How to score good marks in Chemistry in class 12?

A. To score good marks in class 12 Chemistry, study NCERT book, reference books, syllabus, exam pattern, previous years' papers.

