

CHAPTER 6

STUDY GUIDE

The Periodic Table and Periodic Law

Section 6.1 Development of the Modern Periodic Table

In your textbook, read about the history of the periodic table's development.

Use each of the terms below just once to complete the passage.

octaves

~~atomic mass~~~~atomic number~~~~size~~~~elements~~~~properties~~~~Henry Mosely~~~~eight~~

protons

~~periodic law~~~~Dmitri Mendeleev~~~~accepted~~

The table below was developed by John Newlands and is based on a relationship called the law of (1) properties. According to this law, the properties of the elements repeated every (2) eight elements. Thus, for example, element two and element (3) nine have similar properties. The law of octaves did not work for all the known elements and was not generally (4) accepted.

| | | | | | | |
|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| H | Li | G | Be | C | N | O |
| 8 | 9 | 10 | 11 | 12 | 13 | 15 |
| F | Na | Mg | Al | Si | P | S |

The first periodic table is mostly credited to (5) Mendeleev. In his table, the elements were arranged according to increasing (6) atomic mass. One important result of this table was that the existence and properties of undiscovered (7) elements could be predicted.

The element in the modern periodic table are arranged according to increasing (8) atomic number, as a result of the work of (9) Mosely. This arrangement is based on number of (10) protons in the nucleus of an atom of the element. The modern form of the periodic table results in the (11) periodic law which states that when elements are arranged according to increasing atomic number, there is a periodic repetition of their chemical and physical (12) properties.

Periodic Table And Periodic Law Answers

Tao Wei



Periodic Table And Periodic Law Answers:

CBSE Chemistry Chapterwise Case Study Class 11 Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging , **CBSE New Pattern Chemistry Class 11 for 2021-22 Exam (MCQs based book for Term 1)** Shahana Ansari, Abhishika Kaushik, 2021-09-10 1 This book deals with CBSE New Pattern Chemistry for Class 11 2 It is divided into 7 Chapters as per Term 1 Syllabus 3 Quick Revision Notes covering all the Topics of the chapter 4 Carries all types of Multiple Choice Questions MCQs 5 Detailed Explanation for all types of questions 6 3 practice papers based on entire Term 1 Syllabus with OMR Sheet With the introduction of new exam pattern CBSE has introduced 2 Term Examination Policy where Term 1 deals with MCQ based questions while Term 2 Consists of Subjective Questions Introducing Arihant s CBSE New Pattern Series the first of its kind providing the complete emphasize on Multiple Choice Questions which are designated in TERM 1 of each subject from Class 9th to 12th Serving as a new preparatory guide here s presenting the all new edition of CBSE New Pattern Chemistry for Class 11 Term 1 that is designed to cover all the Term I chapters as per rationalized syllabus in a Complete Assertion Reasoning Based MCQs and Cased MCQs for the overall preparation Detailed Explanations of the selected questions help students to get the pattern and questions as well Lastly 3 Practice Questions are provided for the revision of the concepts TOC Some Basic Concept of Chemistry Structure of Atom Classification of Elements and Periodicity in Properties Chemical Bonding and Molecular Structure Redox Reactions Hydrogen Organic Chemistry Some Basic Principles and Techniques Practice Papers 1 3 CSIR NET Chemical Science (Chemistry) [Question Bank] Chapter Wise Question Answer of All Units 4000 +[MCQ] As Per updated Syllabus DIWAKAR EDUCATION HUB , 2021-10-25 CSIR NET Chemical Science Question Bank of 4000 Questions With Explanations from the 45 Chapters given in Syllabus Based on New Pattern For More Details Call Whats App 7310762592 7078549303 **E3 Chemistry Guided Study Book - 2018 Home Edition (Answer Key Included)** Effiong Eyo, 2017-12-08 Chemistry students and Homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Guided Study Book 2018 With E3 Chemistry Guided Study Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with guided step by step solutions to study and follow Practice multiple choice and short answer questions along side each concept to immediately test student understanding of the concept 12 topics of Regents question sets and 2 most recent Regents exams to practice and prep for any Regents Exam This is the Home Edition of the book Also

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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