

Name: KEY

Valence Electrons Practice

The **valence electrons** are the electrons in the outermost energy level. They are always the outermost electrons.

Atoms that LOSE electrons are called **cations** and have an overall **positive** charge.

Atoms that GAIN electrons are called **anions** and have an overall **negative** charge.



Determine the element's number of valence electrons (# of electrons in the "outermost" shell).

Example: Carbon has 4 valence electrons, carbon 4

1. fluorine 7
2. lithium 1
3. phosphorus 5
4. francium 1
5. calcium 2
6. carbon 4
7. nitrogen 5

8. iodine 7
9. silicon 4
10. oxygen 6
11. argon 8
12. barium 2
13. potassium 1
14. aluminum 3

15. helium 2
16. hydrogen 1
17. magnesium 2
18. xenon 8
19. sulfur 6
20. boron 3
21. bromine 7

↑ 2,3

↓

22. What are valence electrons of an atom used for?
not part of Unit 2 exam

Determining how elements bond together

23. Which groups on the periodic table want to lose electrons? What kind(s) of elements are these groups?
Group 1, 2 elements, Alkali metals and Alkali earth metals

24. Which groups on the periodic table want to gain electrons? What kind(s) of elements are these groups?
Groups 5, 6, 7, non-metals

25. Why do the elements from question 23 want to lose electrons? Why do the elements from question 24 want to gain electrons? (HINT: The answer is the same for both questions.)

By losing 1 or 2 electrons these groups form more stable ion having the electron configuration of noble gases

26. How many valence electrons do the Alkaline Earth metals have? Are these elements very reactive? Explain your answer.
2, yes

27. What is the name of the atoms that lose electrons? What is their overall charge?

Cation (+) charge

28. What is the name of the atoms that gain electrons? What is their overall charge?

Anions (-) charge

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A Practical Guide to Understanding, Managing, and Reviewing Environmental Risk Assessment Reports Sally L. Benjamin, David A. Belluck, 2001-02-21 *A Practical Guide to Understanding Managing and Reviewing Environmental Risk Assessment Reports* provides team leaders and team members with a strategy for developing the elements of risk assessment into a readable and beneficial report The authors believe that successful management of the risk assessment team is a key factor is quality repor Chemistry John Olmsted, Greg Williams, Robert C. Burk, 2020 *Chemistry* 4th Edition is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers and distinguish this text from other offerings It more accurately reflects the curriculum of most Canadian institutions *Chemistry* is sufficiently rigorous while engaging and retaining student interest through its accessible language and clear problem solving program without an excess of material and redundancy Applied Electronics John Morris, 1996-11-29 This book provides a sound introduction to basic electronic concepts in a lively and practical format It effectively meets the needs of both the electronics option of the advanced GNVQ in engineering and the BTEC National certificate in electronics and includes hands on practical investigations and self test questions which will appeal to a wide range of readers *Applied Electronics* employs user friendly text and a non mathematical approach to develop the reader s ability and understanding of the principles of analogue and digital electronics Beginning with the semiconductor devices themselves it progresses through amplifiers and power supplies to combinational and sequential logic **Chemistry** John A. Olmsted, Gregory M. Williams, Robert Charles Burk, 2016-01-14 Olmsted Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant **Elements & the Periodic Table Science Learning Guide** NewPath Learning, 2014-03-01 *The Elements Atomic Structure Classes of Elements Metals Classes of Elements Metalloids Classes of Elements Nonmetals The Periodic Table Groups on the Periodic Table and Flame Test Identifying Elements Aligned to Next Generation Science Standards NGSS and other state standards* **MCAT General Chemistry Review 2024-2025** Kaplan Test Prep, 2023-07-04 Always study with the most up to date prep Look for MCAT General Chemistry Review 2025 2026 ISBN 9781506294216 on sale July 2 2024 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product **MCAT General Chemistry Review 2022-2023** Kaplan Test Prep, 2021-07-06 Kaplan s MCAT General

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Industrial Information and Design Issues Jacques-Emile Dubois, Nahum Gershon, 2012-12-06 J E DUBOIS and N GERSHON The first volume of this series The Information Revolution Impact on Science and Technology emphasized the importance of data sharing and fast communication and the advantages of current hypertext developments in creating new and flexible data access Volume II Modeling Complex Data for Creating Information dealt in particular with the specific constraints of science and technology data including imprecision and uncertainty It also provided representation and handling tools and object oriented programming technology for developing data systems The papers presented in this third volume are concerned with the very specific information problems of the technical and competitive industrial world Here production and selling rely on creative design information processing special up to date data search knowledge comprehension and fast action all essential for decision making steps The following topics are discussed in this volume Cognition and Recognition in Design Knowledge Based Systems KBS Evaluation Modeling Tools for Knowledge Discovery Standards and CAD Computer Aided Design Aspects of Industrial Exchange and Specifications Information Seeking Strategies of Selective Access to Intelligent Information Special Information Resources Complex Databases Most of these topics inspired by the symposium on Communication and Computer Aided Systems held during the 14th International CODATA Conference deal with systemic components used by various up to date industries in development strategies

Physical Inorganic Chemistry S. F. A. Kettle, 2013-11-11 GEORGE CHRISTOU Indiana University Bloomington I am no doubt representative of a large number of current inorganic chemists in having obtained my undergraduate and postgraduate degrees in the 1970s It was during this period that I began my continuing love affair with this subject and the fact that it happened while I was a student in an organic laboratory is beside the point I was always enchanted by the more physical aspects of inorganic chemistry while being captivated from an early stage by the synthetic side and the measure of creation with a small c that it entails I nevertheless found the application of various theoretical spectroscopic and physicochemical techniques to inorganic compounds to be fascinating stimulating educational and downright exciting The various bonding theories for example and their use to explain or interpret spectroscopic observations were more or less universally accepted as belonging within the realm of inorganic chemistry and textbooks of the day had whole sections on bonding theories magnetism kinetics electron transfer mechanisms and so on However things changed and subsequent inorganic chemistry teaching texts tended to emphasize the more synthetic and descriptive side of the field There are a number of reasons for this

and they no doubt include the rise of diamagnetic organometallic chemistry as the dominant subdiscipline within inorganic chemistry and its relative narrowness vis d vis physical methods required for its prosecution *Order from Chaos* Luca Spiridigliozzi,2024-11-15 *Order from Chaos* Theoretical Principles and Practical Aspects of the New Class of High Entropy Materials offers a comprehensive exploration of High Entropy Materials a novel class of materials characterized by complex compositions and unexpected properties The book delves into the fundamental principles underlying the formation and stabilization of differently structured High Entropy Ceramics presenting a detailed analysis of their main physical and technological properties Moreover the book discusses the challenges and future prospects of High Entropy Ceramics as well as their potential applications in various industrial sectors making it a useful resource for researchers and engineers in the field of advanced ceramics **X-kit Fet G11 Phys Science Physics** Long, C,2009 **Shriver and Atkins' Inorganic Chemistry** Peter Atkins,2010 Inorganic Chemistry fifth edition represents an integral part of a student s chemistry education Basic chemical principles are set out clearly in Foundations and are fully developed throughout the text culminating in the cutting edge research topics of the Frontiers which illustrate the dynamic nature of inorganic chemistry **O Level Chemistry MCQ (Multiple Choice Questions)** Arshad Iqbal,2019-06-27 The O Level Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF O Level Chemistry MCQ PDF Download Quiz Questions Chapter 1 14 Practice Tests with Answer Key IGCSE GCSE Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs O Level Chemistry MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests O Level Chemistry MCQ PDF book helps to practice test questions from exam prep notes The O Level Chemistry MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs O Level Chemistry Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Acids and bases chemical bonding and structure chemical formulae and equations electricity electricity and chemicals elements compounds mixtures energy from chemicals experimental chemistry methods of purification particles of matter redox reactions salts and identification of ions and gases speed of reaction and structure of atom tests for school and college revision guide O Level Chemistry Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book IGCSE GCSE Chemistry MCQs Chapter 1 14 PDF includes high school question papers to review practice tests for exams O Level Chemistry Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for IGCSE NEET MCAT GRE GMAT SAT ACT competitive exam O Level Chemistry Mock Tests Chapter 1 14 eBook covers problem solving exam tests from chemistry textbook and practical eBook chapter wise as Chapter 1 Acids and Bases MCQ Chapter 2 Chemical Bonding and Structure MCQ Chapter 3 Chemical Formulae and Equations MCQ Chapter 4 Electricity MCQ Chapter 5 Electricity and Chemicals MCQ Chapter 6 Elements Compounds and Mixtures MCQ Chapter 7 Energy from Chemicals

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