

Ionic Bonds Practice

1. Fill in the missing information on the chart.

Na
Cl
Be
F
Li
O
P

Element	# of Protons	# of Electrons	# of Valence Electrons
Sodium	11	11	1
Chlorine	17	17	7
Beryllium	4	4	2
Fluorine	9	9	7
Lithium	3	3	1
Oxygen	8	8	6
Phosphorus	15	15	5

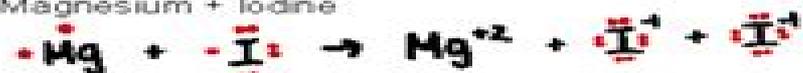
2. For each of the following ionic bonds:

- Write the symbols for each element.
- Draw a Lewis Dot structure for the valence shell of each element.
- Draw an arrow (or more if needed) to show the transfer of electrons to the new element.
- Write the charges on the ions.
- Write the resulting chemical formula.

a) Sodium + Chlorine



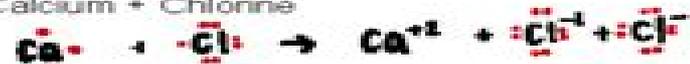
b) Magnesium + Iodine



c) Sodium + Oxygen



d) Calcium + Chlorine



e) Aluminum + Chlorine



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Introduction to Materials Science for Engineers James F. Shackelford, 2009 For a first course in Materials Sciences and Engineering taught in the departments of materials science mechanical civil and general engineering This text provides balanced current treatment of the full spectrum of engineering materials covering all the physical properties applications and relevant properties associated with engineering materials It explores all of major categories of materials while also offering detailed examinations of a wide range of new materials with high tech applications Publisher's website

Principles of Inorganic Materials Design John N. Lalena, David A. Cleary, 2010-02-12 Unique interdisciplinary approach enables readers to overcome complex design challenges Integrating concepts from chemistry physics materials science metallurgy and ceramics Principles of Inorganic Materials Design Second Edition offers a unique interdisciplinary approach that enables readers to grasp the complexities of inorganic materials The book provides a solid foundation in the principles underlying the design of inorganic materials and then offers the guidance and tools needed to create specific materials with desired macroscopic properties Principles of Inorganic Materials Design Second Edition begins with an introduction to structure at the microscopic level and then progresses to smaller length scales Next the authors explore both phenomenological and atomistic level descriptions of transport properties the metal nonmetal transition magnetic and dielectric properties optical properties and mechanical properties Lastly the book covers phase equilibria synthesis and nanomaterials Special features include Introduction to the CALPHAD method an important but often overlooked topic More worked examples and new end of chapter problems to help ensure mastery of the concepts Extensive references to the literature for more in depth coverage of particular topics Biographies introducing twentieth century pioneers in the field of inorganic materials science This Second Edition has been thoroughly revised and updated incorporating the latest findings and featuring expanded discussions of such key topics as microstructural aspects density functional theory dielectric properties mechanical properties and nanomaterials Armed with this text students and researchers in inorganic and physical chemistry physics materials science and engineering will be equipped to overcome today's complex design challenges This textbook is recommended for senior level undergraduate and graduate course work

Material Science and Metallurgy: Jindal, 2011 Material Science and Metallurgy is presented in a user friendly language and the diagrams give a clear view and concept Solved problems multiple choice questions and review questions are also integral part of the book The contents of the book are

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Metals Abstracts ,1976 Journal of the Institute of Metals Institute of Metals,1966 Educational Times ,1891
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