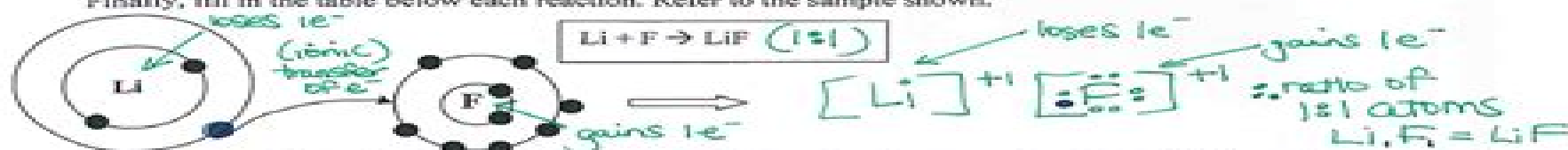


Name Solutions

Date _____ Period _____

Ionic Bonding Worksheet

For each pair of elements below draw an atomic diagram showing electrons in different energy levels. Draw arrows to show where the outer electrons will go during a chemical reaction, then draw the resulting compound. Finally, fill in the table below each reaction. Refer to the sample shown.



Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
Li	1 ve	transfers $1e^-$ to F	Li^+
F	7 ve	accepts $1e^-$ from Li	F^-

Reactions	Atoms	Valence electrons	Electron transfer from/to each atom	Ions formed in the product
1) $Li + Cl \Rightarrow LiCl$ $Li \cdot + \cdot \ddot{Cl} : \rightarrow [Li]^+ [\ddot{Cl}]^-$	Li	1 ve	donates $1e^-$	Li^+
	Cl	1 ve	accepts $1e^-$	Cl^-
2) $Ca + O \Rightarrow CaO$ $Ca \cdot + \cdot \ddot{O} : \rightarrow [Ca]^{+2} [\ddot{O}]^{2-}$	Ca	2 ve	donates $2e^-$	Ca^{+2}
	O	6 ve	accepts $2e^-$	O^{2-}
3) $Be + F \Rightarrow BeF_2$ $Be \cdot + \cdot \ddot{F} : \rightarrow [Be]^{+2} [\ddot{F}]_2^{-1}$	Be	2 ve	donates $2e^-$ to each F	Be^{+2}
	F	7 ve	each F accepts $1e^-$ each	F^-
4) $Mg + S \Rightarrow MgS$ $Mg \cdot + \cdot \ddot{S} : \rightarrow [Mg]^{+2} [\ddot{S}]^{2-}$	Mg	2 ve	donates $2e^-$ to S	Mg^{+2}
	S	6 ve	accepts $2e^-$	S^{2-}
5) $K + F \Rightarrow KF$ $K \cdot + \cdot \ddot{F} : \rightarrow [K]^+ [\ddot{F}]^-$	K	1 ve	donates $1e^-$	K^+
	F	7 ve	accepts $1e^-$	F^-

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Margaret Irene Lindsay

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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Teaching Chemical Bonding Margaret Irene Lindsay,1995 This document presents an instructional strategy for teaching chemical bonding using parables and music Games student interactions and worksheets are included in the lesson plans Topics include metallic bonding covalent bonding including molecular and network structure and ionic bonding JRH

Chemical Bonding Kok Koon Leong,2021-05-03 This book introduces the principles behind chemical bonding to teenagers between the ages of fifteen to seventeen Topics covered include ionic bonding covalent bonding and metallic bonding

Ionic Bonds | Characteristics of Ionic Bonds and Properties of Ionic Compounds | Grade 6-8 Physical Science Dot EDU,2024-04-15 Dive into the electrifying world of Ionic Bonds Characteristics and Properties for grades 6 8 This insightful book unravels the mysteries of ionic bonds and compounds explaining their formation characteristics and role in the matter s structure Discover the intricacies of atoms the exchange of electrons and the fascinating properties of ionic compounds through engaging examples and explanations Perfect for educators and students this resource illuminates a foundational concept in physical science Add it to your science curriculum to spark curiosity and understanding in young learners [Ionic and Covalent Bonding](#) James M. Postma,Julian Roberts,J. Leland Hollenberg,2000-01-15

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