

IONIC BONDING - INTRODUCTION TO COLLEGE CHEMISTRY FORMATIVE ASSESSMENT - KEY











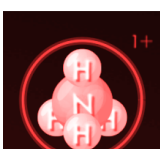
STUDENT CHECK FOR UNDERSTANDING

DIRECTIONS:

In each available box in the grid below, write out the chemical formula and cation-to-anion ratio of the compound that would result from combining each cation and anion. Check your answers using the Ionic Bonding Sandbox.

Concepts:
Net Compound
Neutrality,
One Type of Cation
to One Type of Anion,
Cation-to-Anion Ratios,
Polyatomic Ions

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		Anion				
						
Cation		LiCl 1:1	Li ₂ O 2:1	Li ₃ N 3:1	Li ₃ (PO ₄) 3:1	Li ₂ SO ₄ 2:1
		MgCl ₂ 1:2	MgO 1:1	Mg ₃ N ₂ 3:2	Mg ₃ (PO ₄) ₂ 3:2	MgSO ₄ 1:1
		FeCl ₃ 1:3	Fe ₂ O ₃ 2:3	FeN 1:1	Fe(PO ₄) 1:1	Fe ₂ (SO ₄) ₃ 2:3
		NH ₄ Cl 1:1	(NH ₄) ₂ O 2:1	(NH ₄) ₃ N 3:1	(NH ₄) ₃ PO ₄ 3:1	(NH ₄) ₂ SO ₄ 2:1