

Name: _____

Date: _____

- [3 pt] 1. What is the difference between an atom, cation and anion?
- [3 pt] 2. What are the differences (minimum of 3) between Ionic and Molecular compounds.
- [3 pt] 3. Write a chemical equation for the formation of a Nitride anion from a Nitrogen atom.
- [3 pt] 4. Write a chemical equation for the formation of a Calcium cation from a Calcium atom.
- [3 pt] 5. What are polyatomic ions? What is the only positively charged polyatomic ion? Give an example of a negatively charged polyatomic ion (name and formula).

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[15 pt] 6. Complete the following table, filling in each box with the proper formula.

	Br^-	O^{-2}	NO_3^-	PO_4^{-3}	CO_3^{-2}
K^+					
Mg^{+2}					
Al^{+3}					
Zn^{+2}					
H^+					