**SCI 10 Chem Day 17 Mixed Ionic/Covalent Compound Naming**

For each of the following questions, determine whether the compound is ionic or covalent and name/ write the formula accordingly. *\*Don’t forget to add charges for transition metals!*

* **IONIC: + and – (metal + non-metal)**, add –ide ending, charge must be zero
* **COVALENT: - and – (non-metal + non-metal)**, use prefixes

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Ionic (I) or Covalent (C)** | **Name** |  |  | **Ionic (I) or Covalent (C)** | **Formula** |
|  | Na2CO3 |  |  | 14. | dinitrogen trioxide |  |  |
|  | P2O5 |  |  | 15. | nitrogen |  |  |
|  | NH3 | C | Ammonia\* | 16. | methane\* | C | CH4 |
|  | FeSO4 |  |  | 17. | lithium acetate |  |  |
|  | SiO2 |  |  | 18. | phosphorus trifluoride |  |  |
|  | GaCl3 |  |  | 19. | vanadium (V) oxide |  |  |
|  | CoBr2 |  |  | 20. | aluminum hydroxide |  |  |
|  | B2H4 |  |  | 21. | zinc sulfide | I | ZnS |
|  | CO |  |  | 22. | silicon tetrafluoride |  |  |
|  | O2 (g) |  |  | 23. | silver phosphate |  |  |
|  | H3PO4 (aq) |  |  | 24. | hydrochloric acid |  |  |
|  | HF (aq) |  |  | 25. | acetic acid |  |  |
|  | Ca(OH)2 (aq) | I | Calcium hydroxide | 26. | beryllium hydroxide | I | Be(OH)2 |