

4.2 Names and Formulas of Compounds

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Across

- The positive ion is always a _____ in a compound containing two elements, and it is always written first.
- _____ are compounds that are composed of positive ions and negative ions.
- The compound, sulphur hexafluoride, contains _____ fluoride ions.
- In an ionic compound, the first part of the name indicates the _____ ion.
- In a covalent compound, the precise number of _____ of each element in the molecule is shown by the chemical formula.
- A _____ covalent compound contains two non-metal elements joined together by one or more covalent bonds.
- Nickel (Ni) in the periodic table lists two ion charges, 2+ and 3+. This means that nickel is _____.
- In an ionic compound, _____ are used to show the smallest whole-number ratio of the ions.
- _____ indicate the numbers of atoms of each element that appear in the formula of binary covalent compounds.

Down

- Name the ionic compound formed from zinc and sulphur.
- The chemical name of an ionic compound always has _____ parts.
- In the formula of an ionic compound, the _____ indicate the ratio in which the positive ions and negative ions are present together in the compound.
- A _____ ion is an ion composed of more than one type of atom joined by covalent bonds.
- Because polyatomic ions carry an _____, they cannot exist on their own.
- The crystal of salt shown in the background of this puzzle formed from a solution that contained sodium and chloride _____.
- In multivalent ionic compounds, _____ numerals from I to VII correspond to ion charges from 1+ to 7+.
- In a covalent compound, the subscripts show the actual number of atoms of each element in the _____.