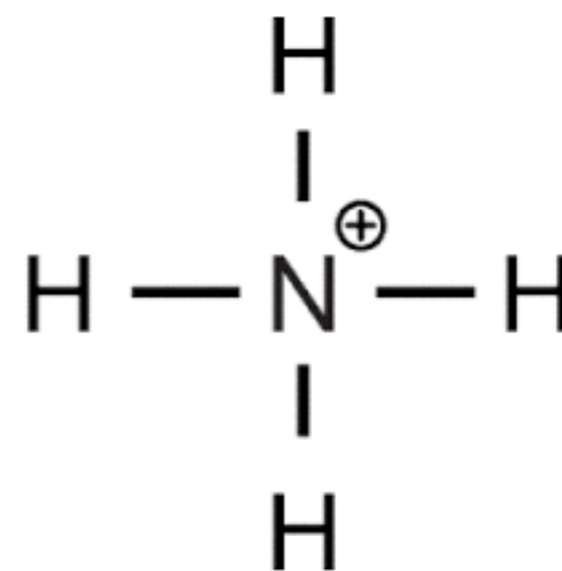
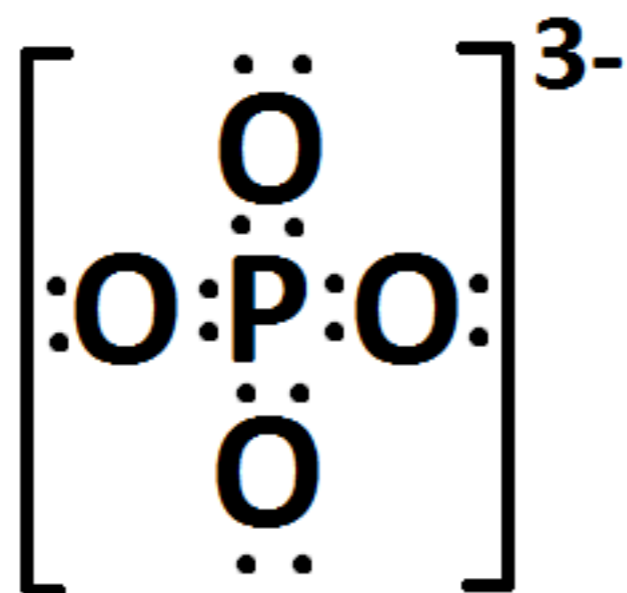


Polyatomic Ions

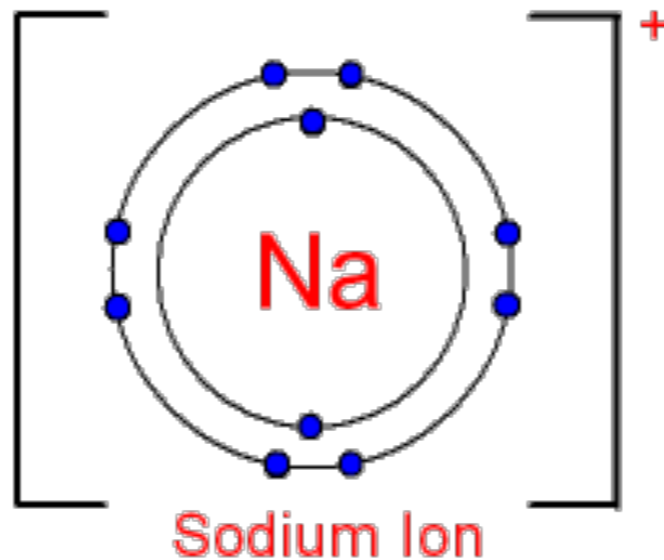


Nitrates in Food



Monatomic Ions

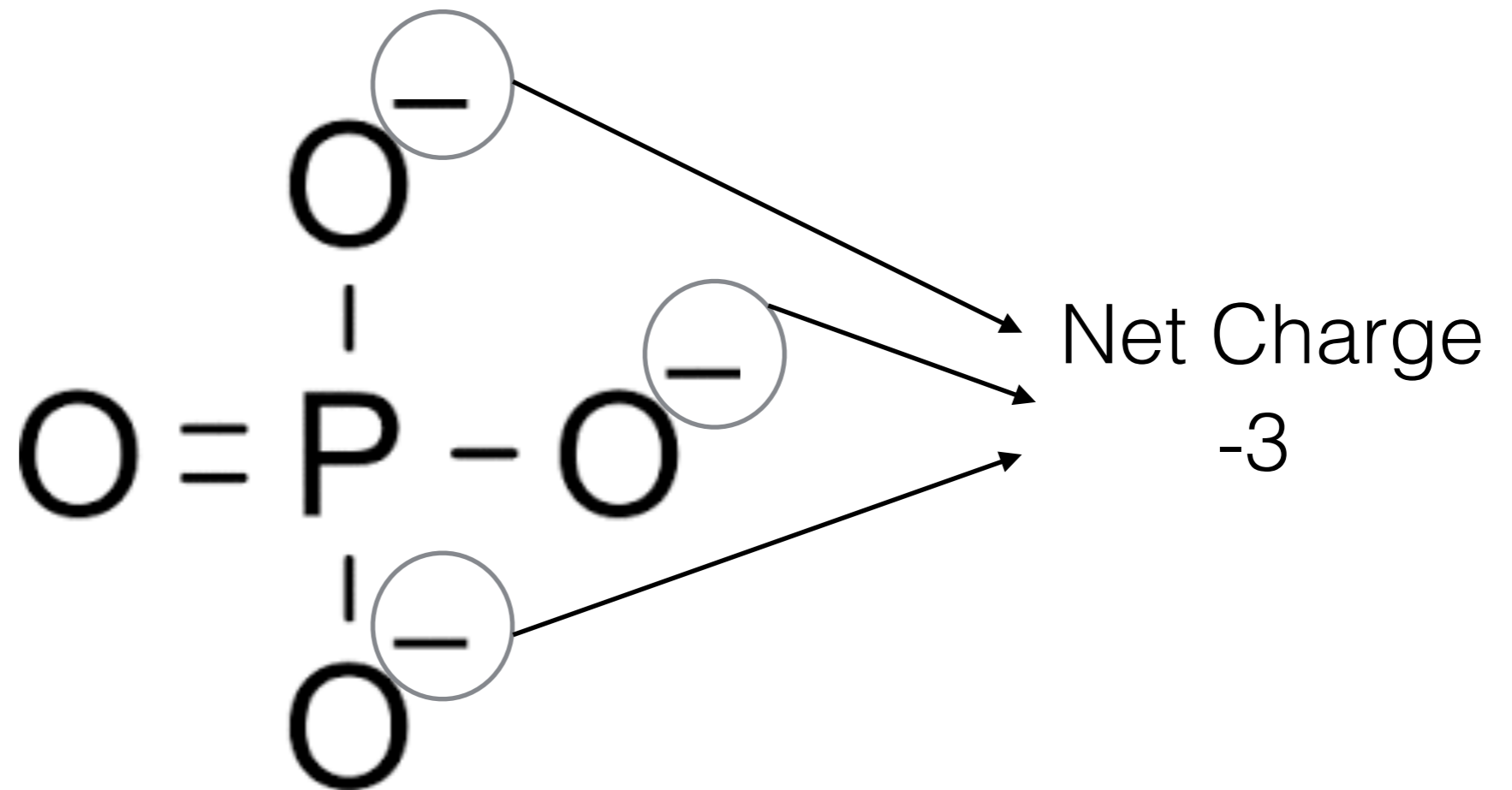
- Ionic compounds we've learned so far consist of **monoatomic ions**
- **Monoatomic ion**- an ion composed of only one atom.
- We have only looked at these so far



Polyatomic Ions

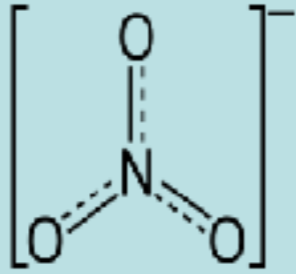
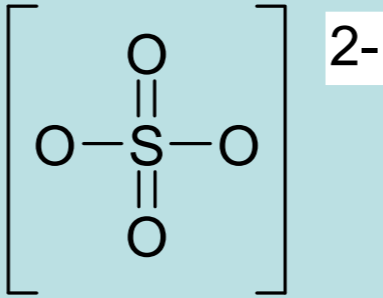
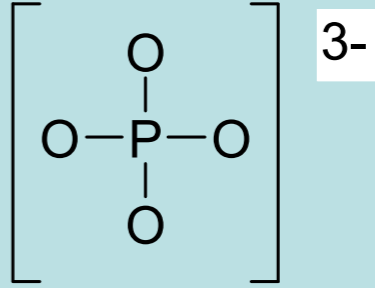
- **Monoatomic ions**- an ion composed of two or more atom types.

Here's one...



Polyatomic Ions

- Example-

| | | |
|---|---|---|
| NO_3^- | SO_4^{2-} | PO_4^{3-} |
|  |  |  |

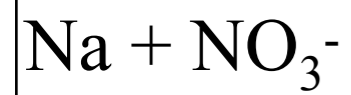
Polyatomic Bonding

Ionic Bonding with polyatomic ions occurs in the same manner as it does with binary atomic molecules.

- a. Balance the charges the same as monoatomic ions*
- b. Be sure that the charge used is what applies to the whole polyatomic ion.*
- c. If more than one polyatomic ion is required to balance charges, then use brackets around the polyatomic ion to indicate the number that applies to the whole ion.*

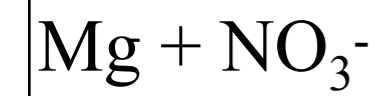
Example 1

Step 1



Example 2

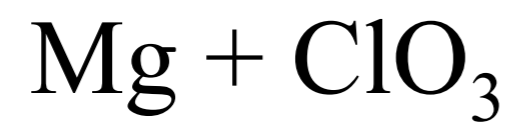
Step 1



Magnesium Nitrate

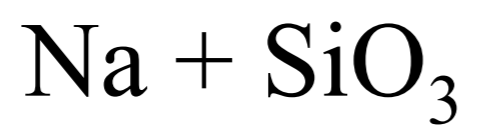


PRACTICE





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