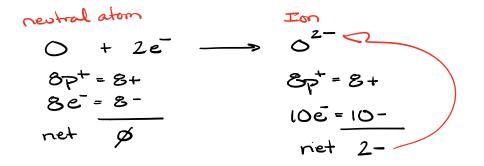
Quick lesson on ions

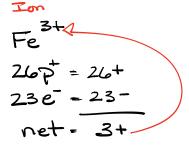
An ion is an atom that has more or less electrons than the number of protons. A cation has less e than the # of protons => + Change

An anion has more e than the # of protons => - Change

neutral atom		Ion Charge indicated
F + e		E in upper right
9p ⁺ = 9+		9pt = 9+ hand side
9e ⁻ = <u>9</u> -		100=10-
net ø		net I-



reutral atom Fe $-3e^{-} \rightarrow F$ $26p^{+} = 26 + 2$ $26e^{-} = 26 - 2$ ret = 0



working Backwards

An ion has 24e, 30 neutrons, 3t charge write the neuclide symbol for the ion.

3+

$$27p^{+} = 27+4$$

 $24e^{-} = 24-$
 $net = 3+2$ Fon has 3 more + Charges
 $24+3=27$
 $30+27$ $3+$ 57 $3+$ $= 57$ 27
 $24+3=27$
 $24+3=27$
 $24+3=27$
 $27C0$
 $100E up \pm 27 on PT$

Here's an anion example

ion has $18e^{-3}$, mass number 31, 3-charge write the nesclide Symbol $3^{1} \times 3^{-1}$, $15p^{+} = 15+2$ $18e^{-3} = 18^{-1}$ $18e^{-3} = 18^{-1}$ $18e^{-3} = 15 + charges$ $18e^{-3} = 15 + charges$ $18e^{-3} = 15 + charges$