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Chapter 4

Bonding:

Chemical bond - forces that hold atoms together. a stable bond is strong enough to form a compound or molecule.

molecule - multiple (not infinite) atoms bonded together

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Chapter 4

ionic compounds

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ionic compounds:

binary

metal + non metal

name: m + nm (root) - "ide"
negative ion

ionic w/ metals that have multiple + charge options:

transition: Ti^{3+} , Ti^{4+}

formula must balance charges.

example:

Iron(III) chloride = $FeCl_3$
↑
ionic charge of iron