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covalent bond wikipedia Apr 01 2024 a covalent bond is a chemical bond that involves the sharing of electrons to form electron pairs between atoms these electron pairs are known as shared pairs or bonding pairs the stable balance of attractive and repulsive forces between atoms when they share electrons is known as covalent bonding 1

**single and multiple covalent bonds article khan academy** Feb 29 2024 for that same reason six or seven bonds are possible and xenon can form 8 covalent bonds in the compound xeo<sub>4</sub> metallic elements can definitely have more than eight valence electrons however they do not tend to form covalent bonds

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covalent bonding Dec 29 2023 the octet rule in covalent bonding covalent compounds are most stable when each atom has eight electrons single double and triple covalent bonds depend on the number of pairs of electrons shared between two atoms atoms form double or triple covalent bonds if they can attain a noble gas structure by doing so

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9 covalent bonding chemistry libretexts Apr 20 2023 9 8 coordinate covalent bond each of the covalent bonds that we have looked at so far has involved each of the atoms that are bonding contributing one of the electrons to the shared pair there is an alternate type of covalent bond in which one of the atoms provided both of the electrons in a shared pair

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