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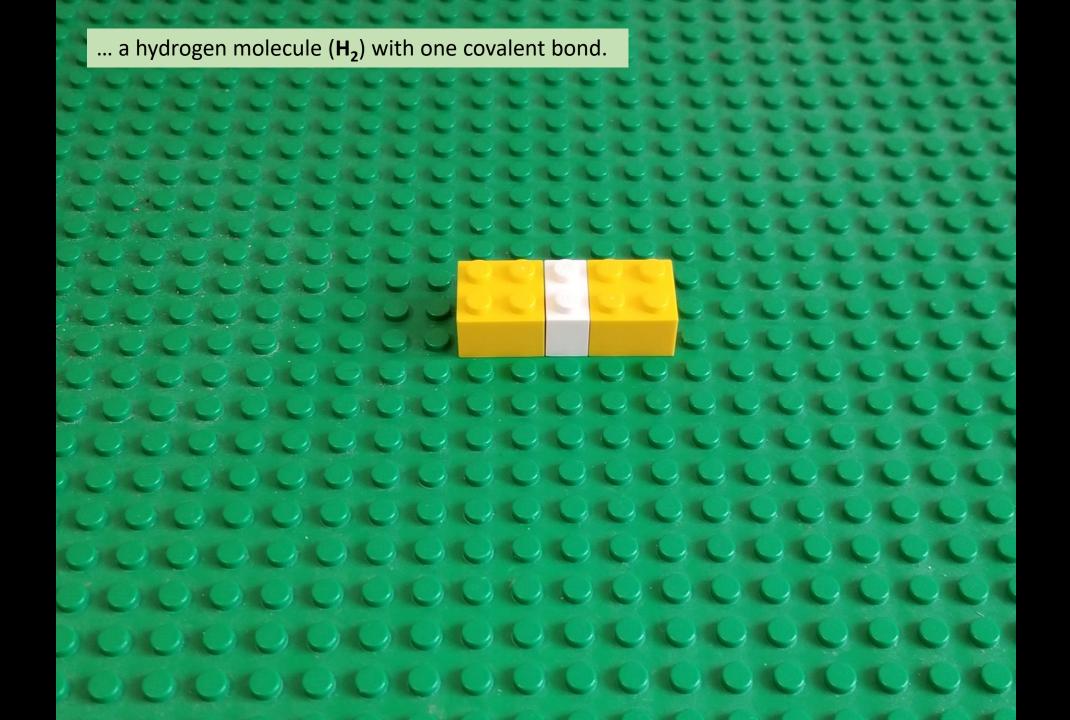
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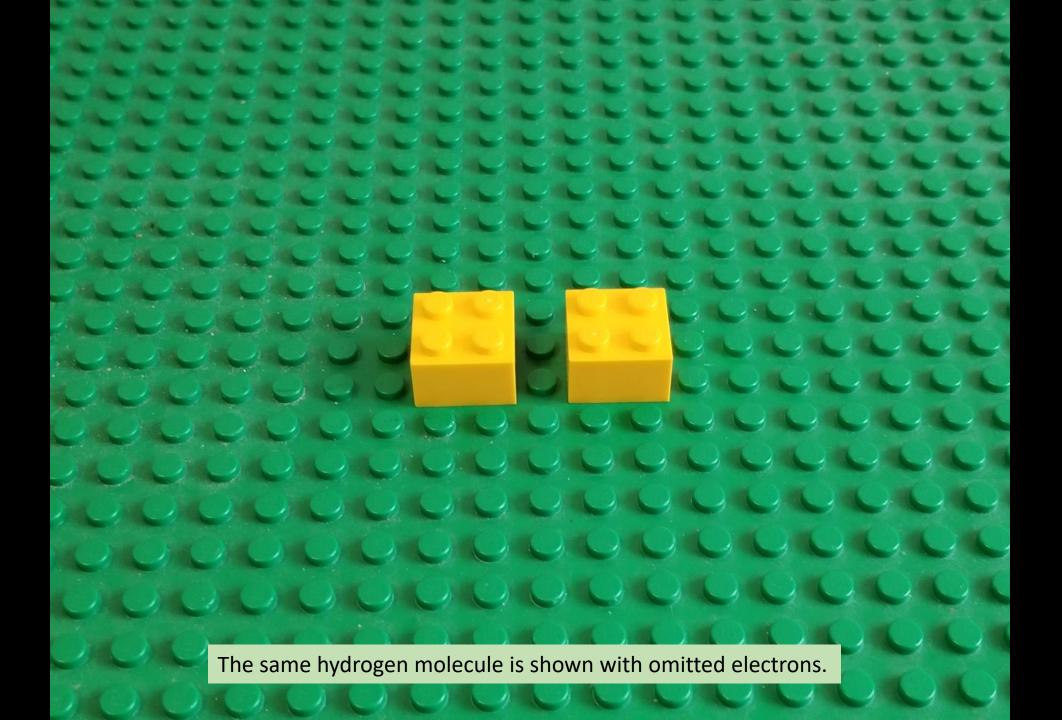
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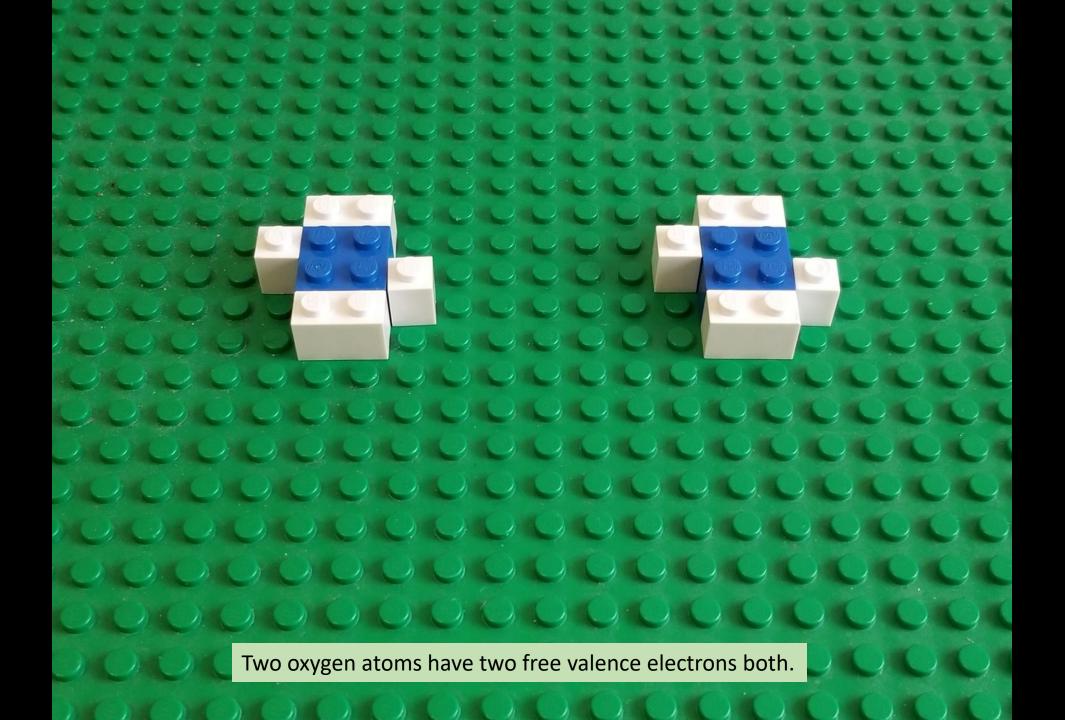
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The same baseplate representation can also be applied to inorganic compounds where different colored blocks represent different elements. Let's look at some simple examples. Two hydrogen atoms each with one free valence electron combine into ...







One pair of electrons produces a single covalent bond (·**O-O**·). Each atom has a remaining free valence electron.

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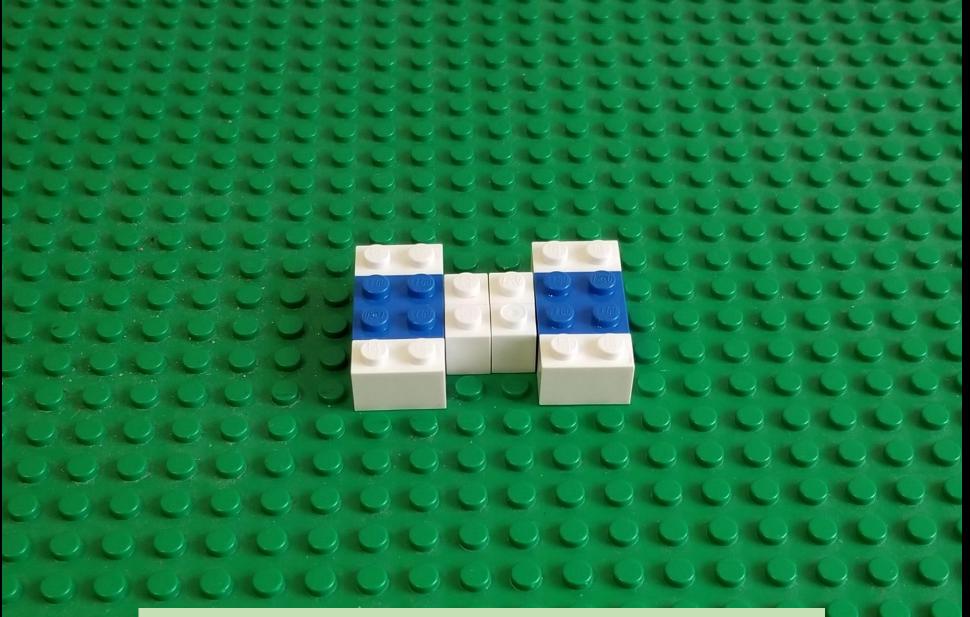
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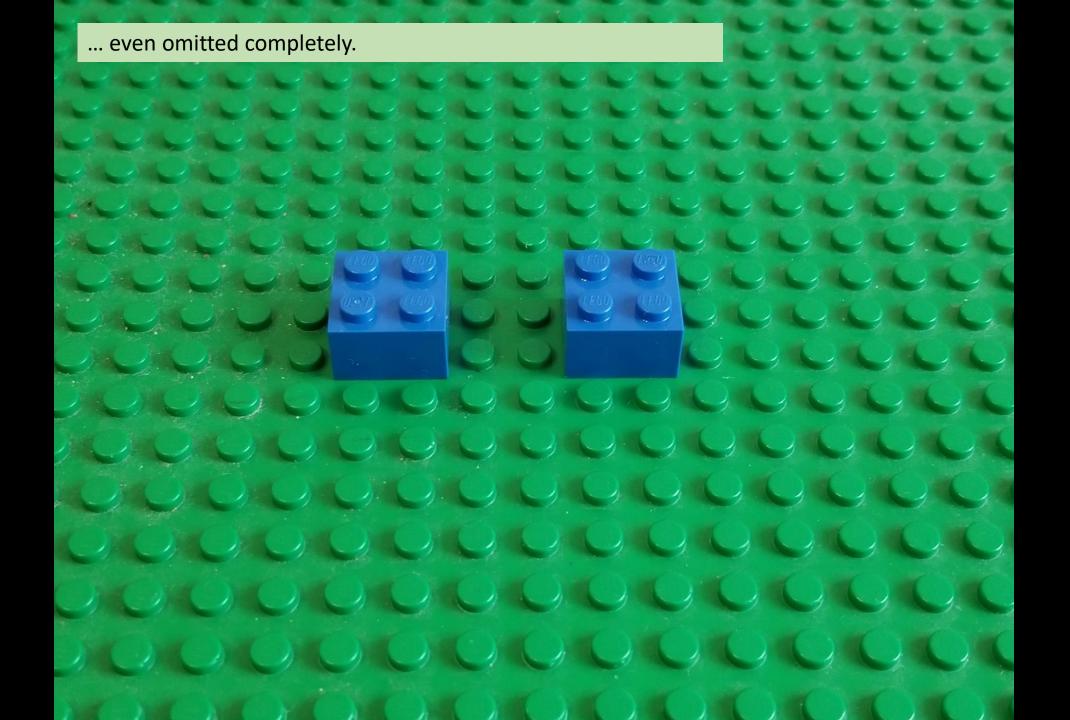
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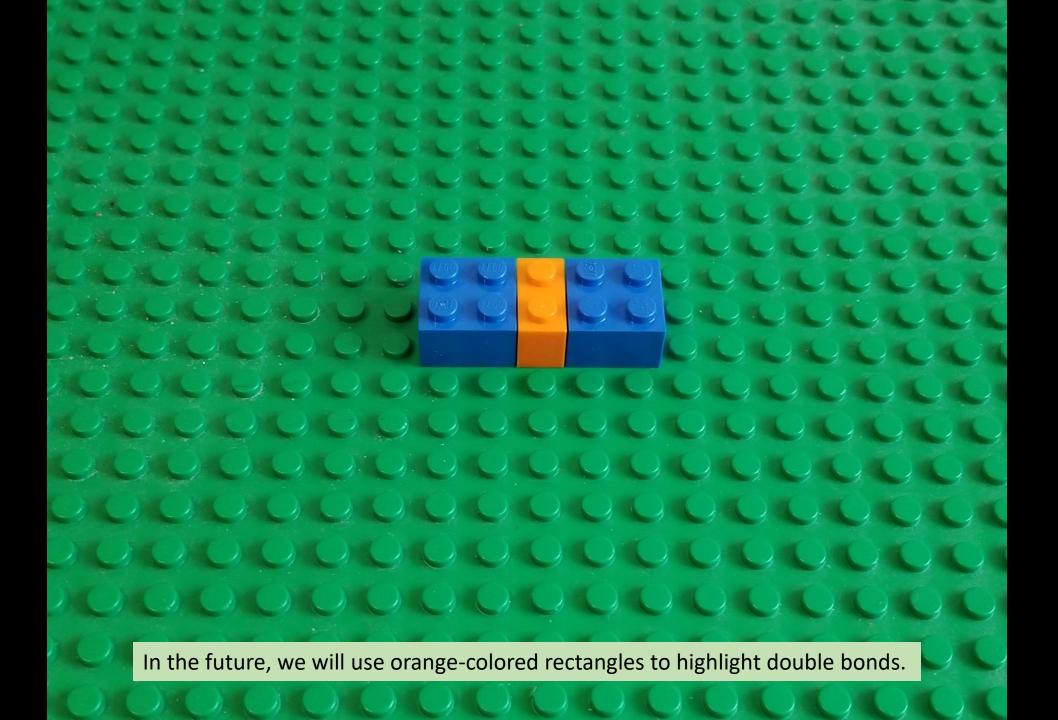
LIK. a jac jac j Another pairing produces the second covalent bond. As a result,

we have a double bond in a molecule of oxygen (O₂, O=O).



This double bond can be showed using different ways depending on the goals of illustration and ...

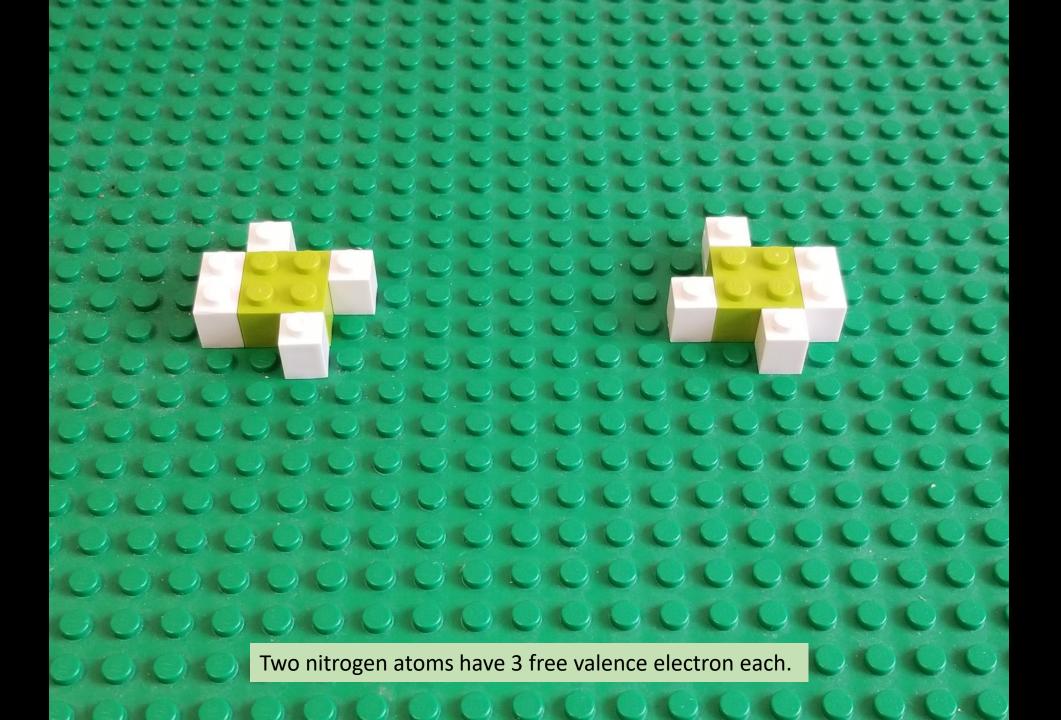


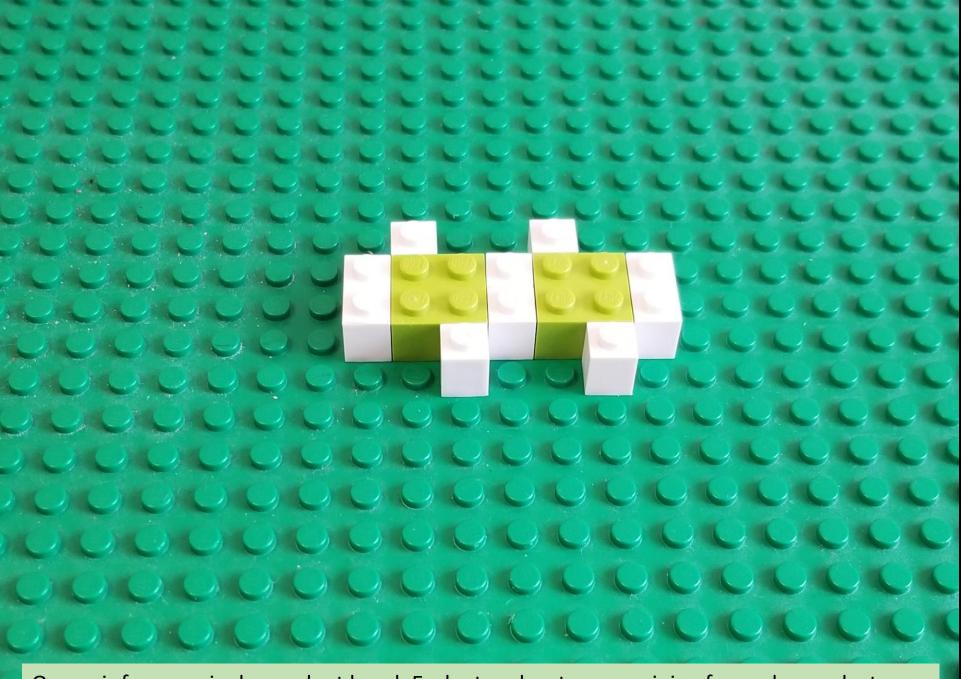


Two chlorine atoms with one free valence electron each combine to form a molecule of chlorine (Cl_2) .

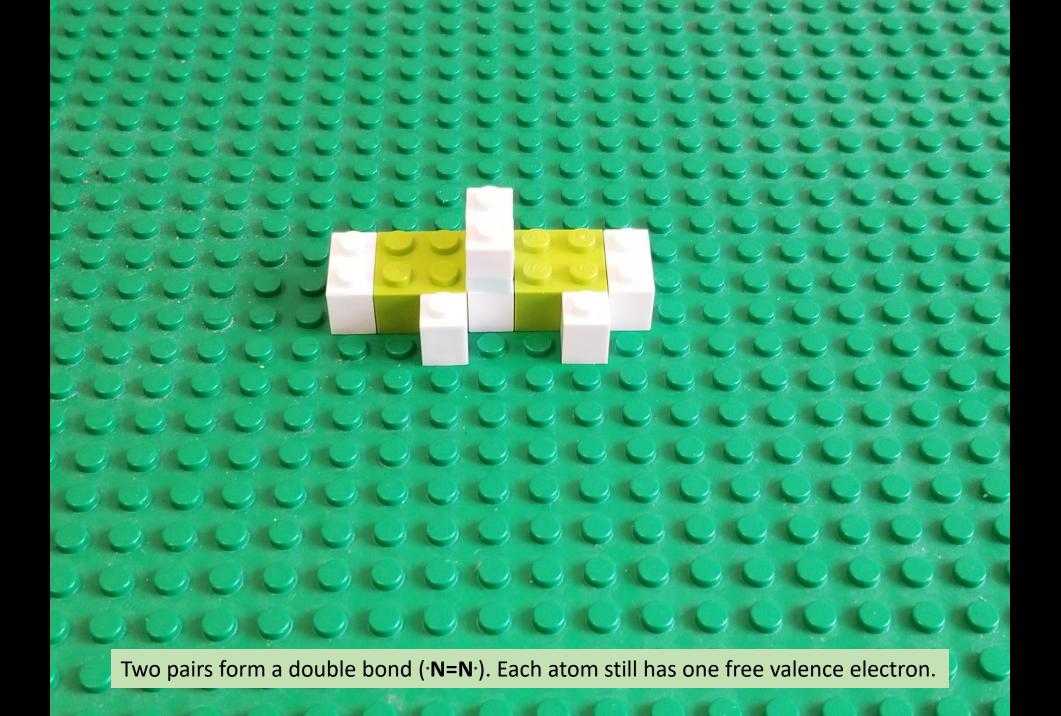
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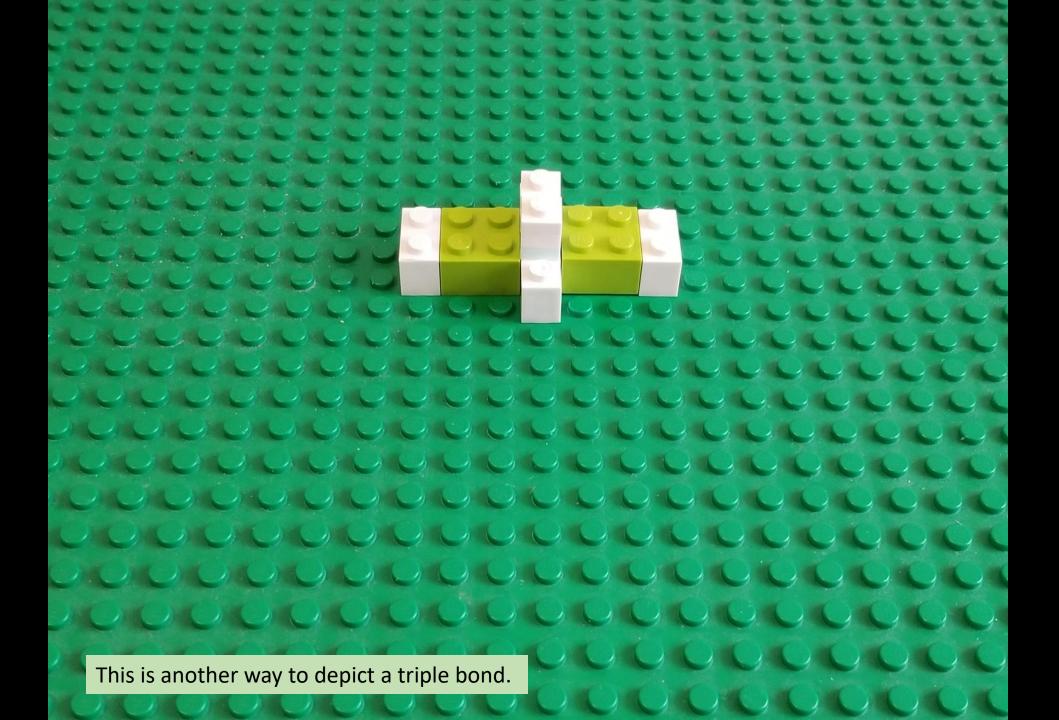


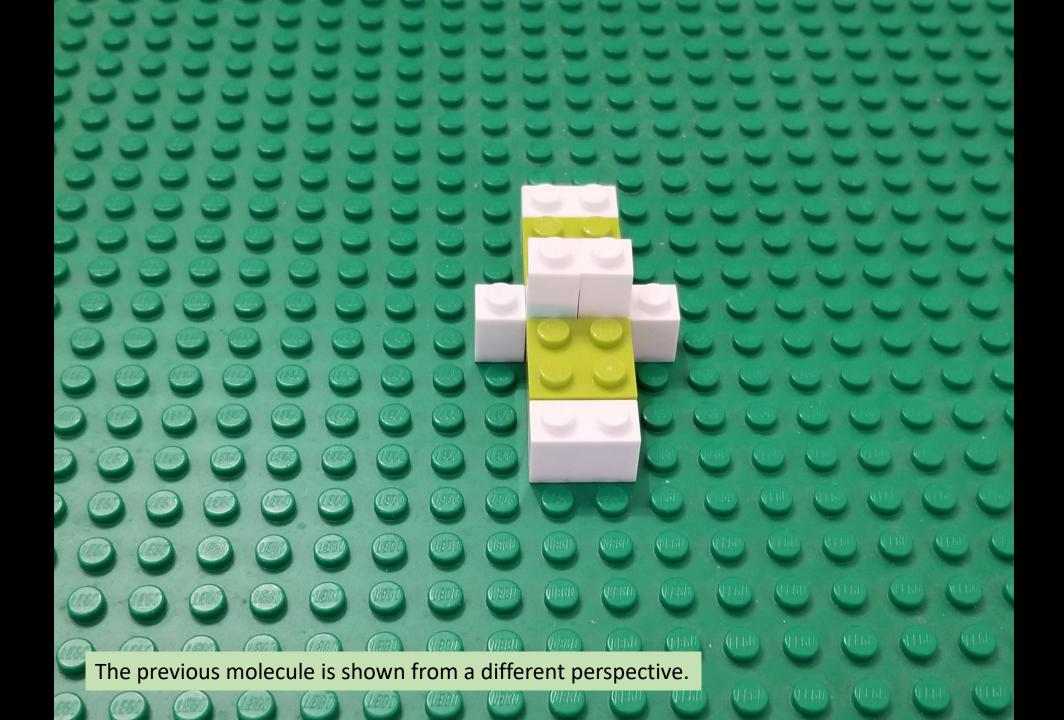


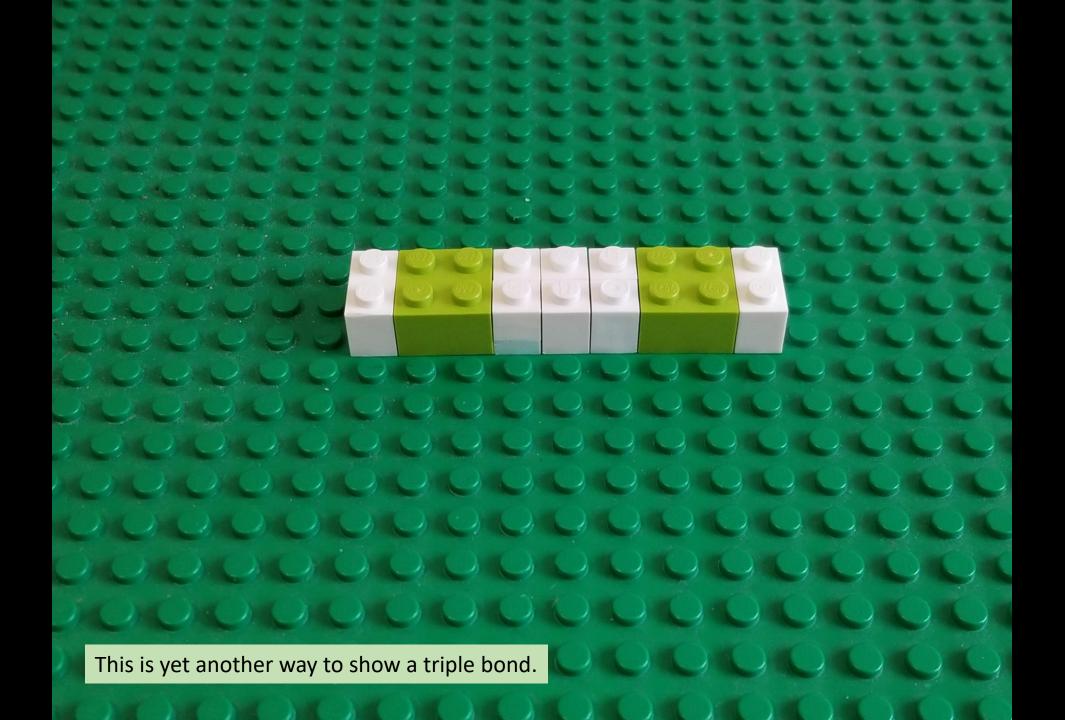
One pair forms a single covalent bond. Each atom has two remaining free valence electrons.



3 pairs form a triple bond and complete an octet around each atom. We have formed a molecule of nitrogen (N_2) .







We can omit electron pairs, but this picture can be easily confused with separate nitrogen atoms. Moreover, in reality, double bonds are shorter than ordinary bonds, and triple bonds are shorter than double bonds.

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