## Chemistry Brick ° Solution y Brick

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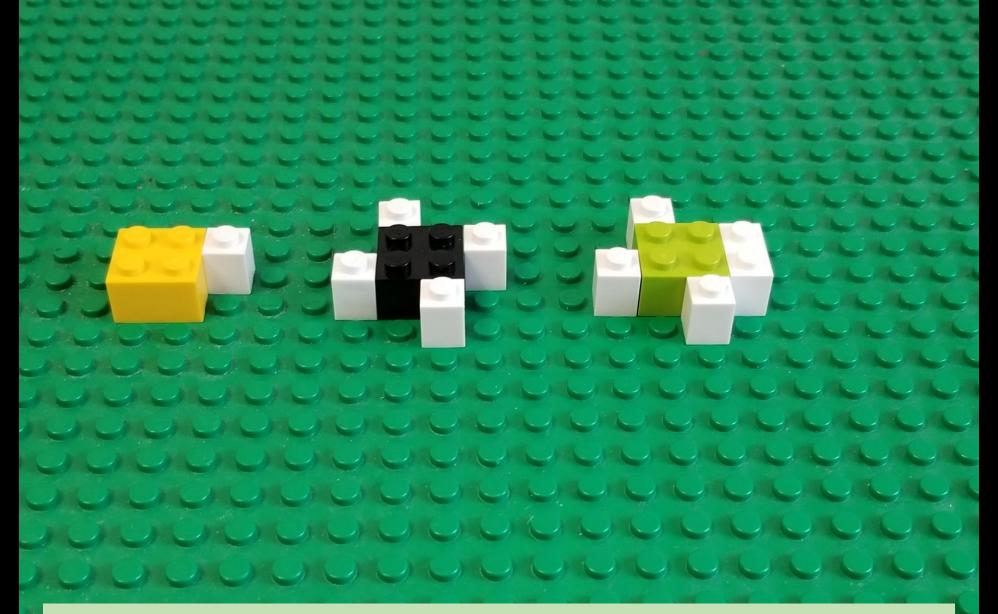
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## Part 7

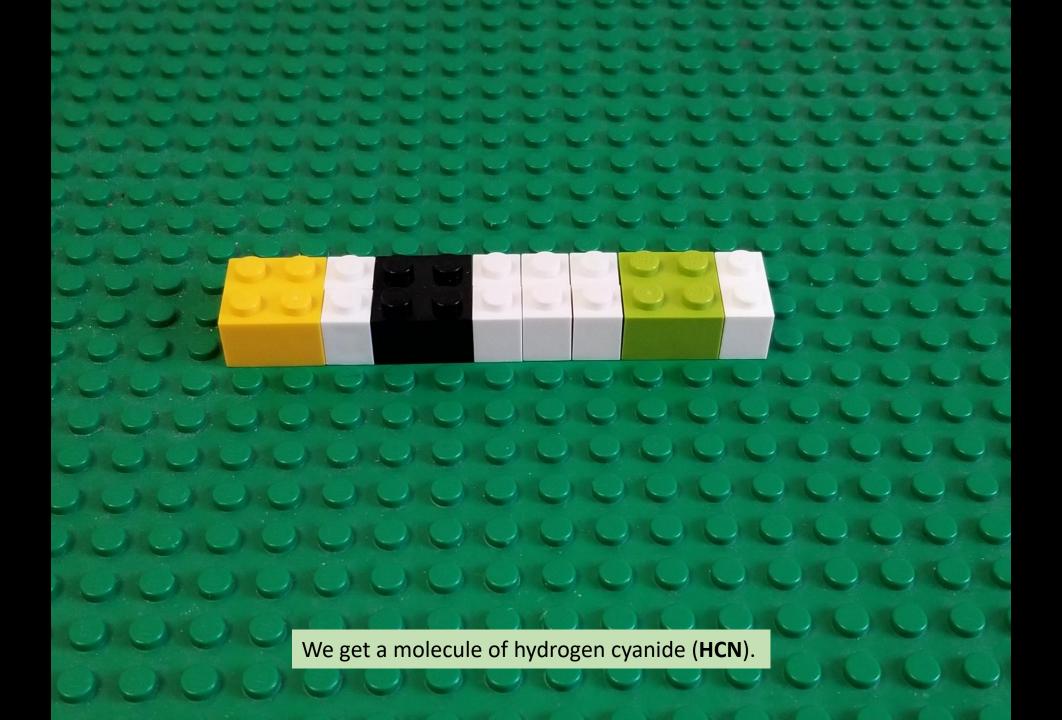
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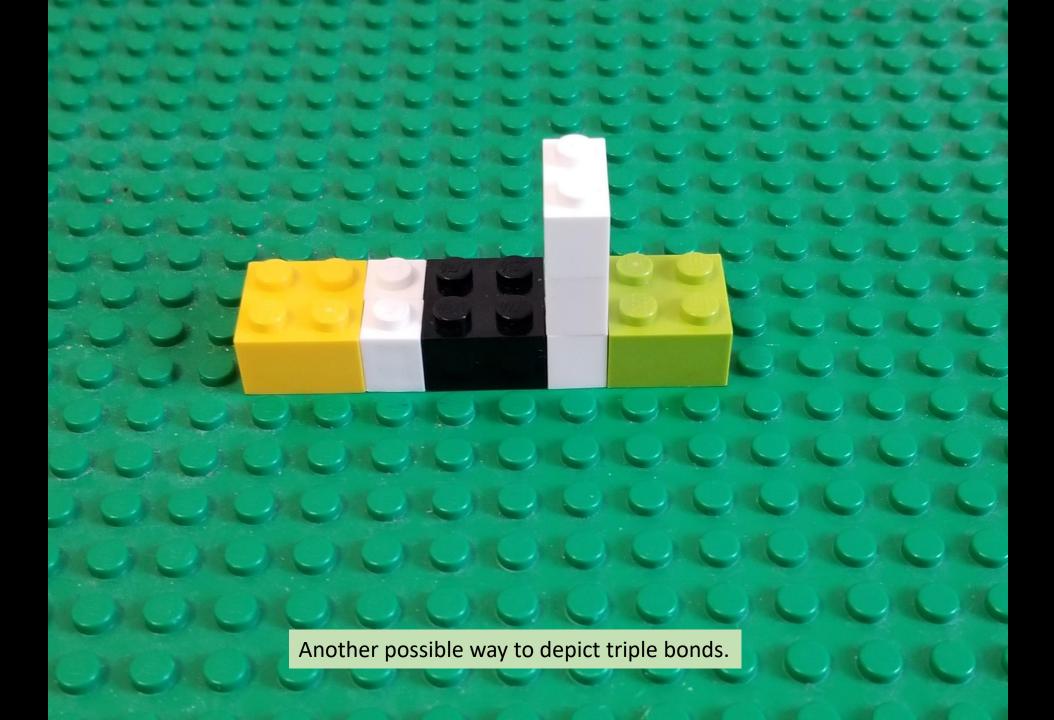
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We continue our baseplate representation examples for simple inorganic compounds but now involving a carbon atom. We can attach one hydrogen atom to it (single bond) and one nitrogen atom (triple bond).





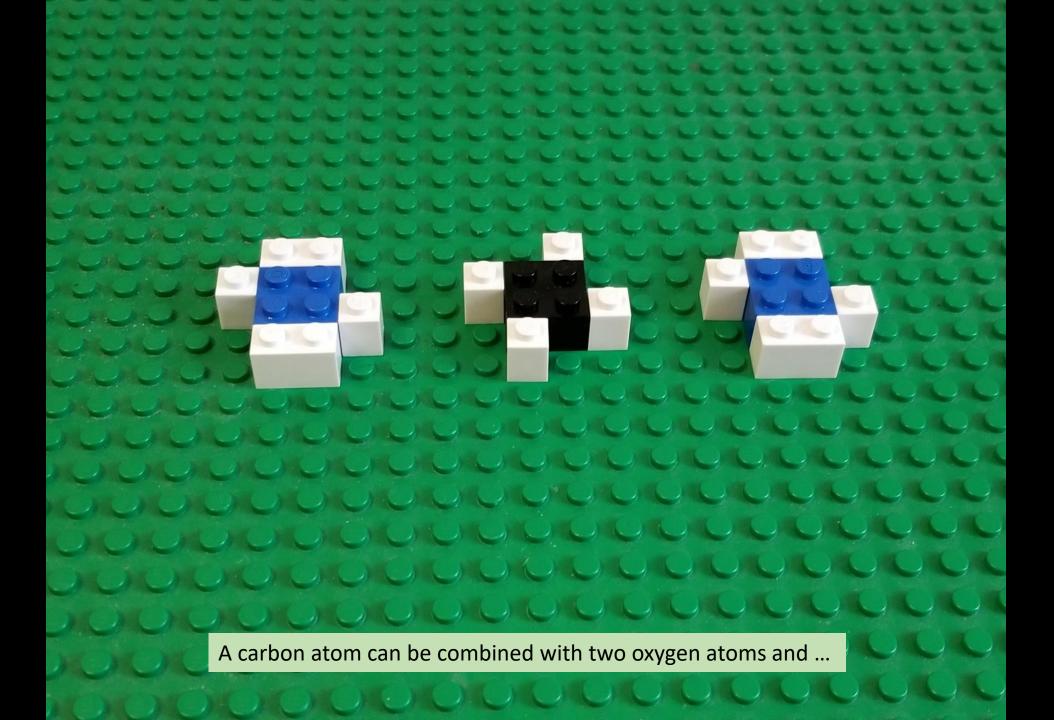
But we will use red brick to depict a triple bond.

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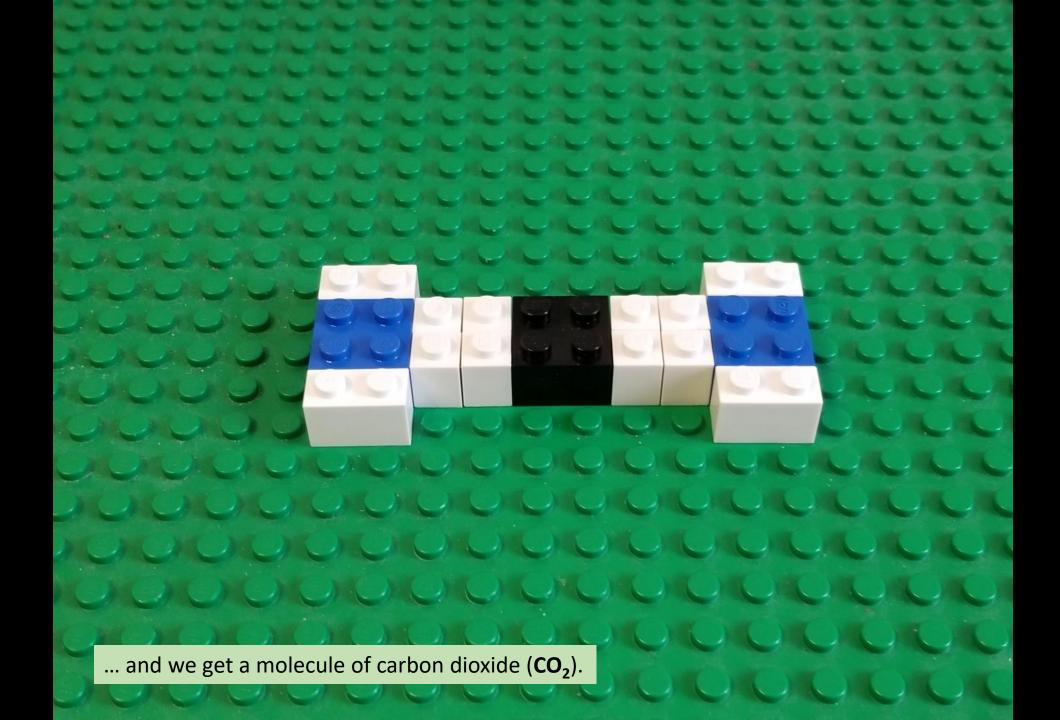
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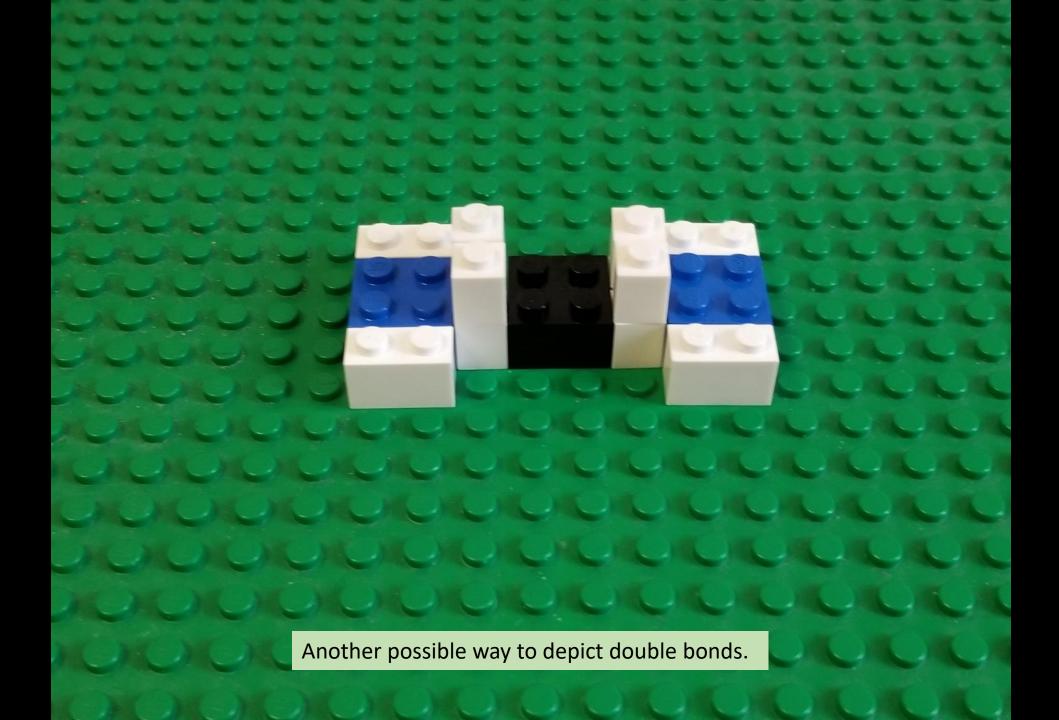
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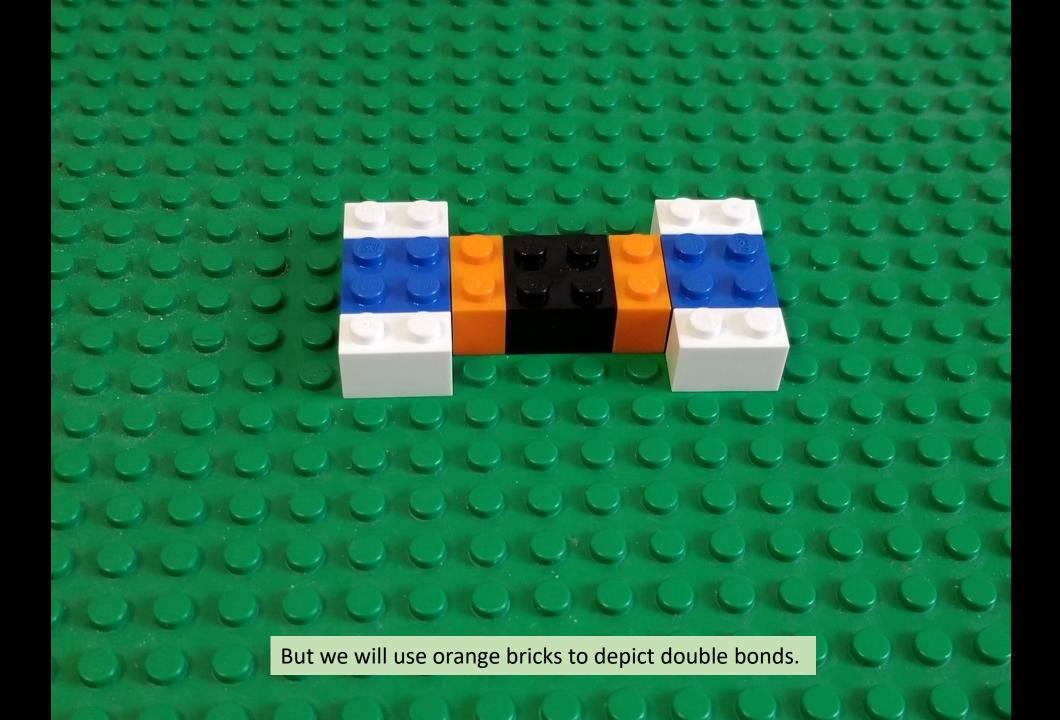
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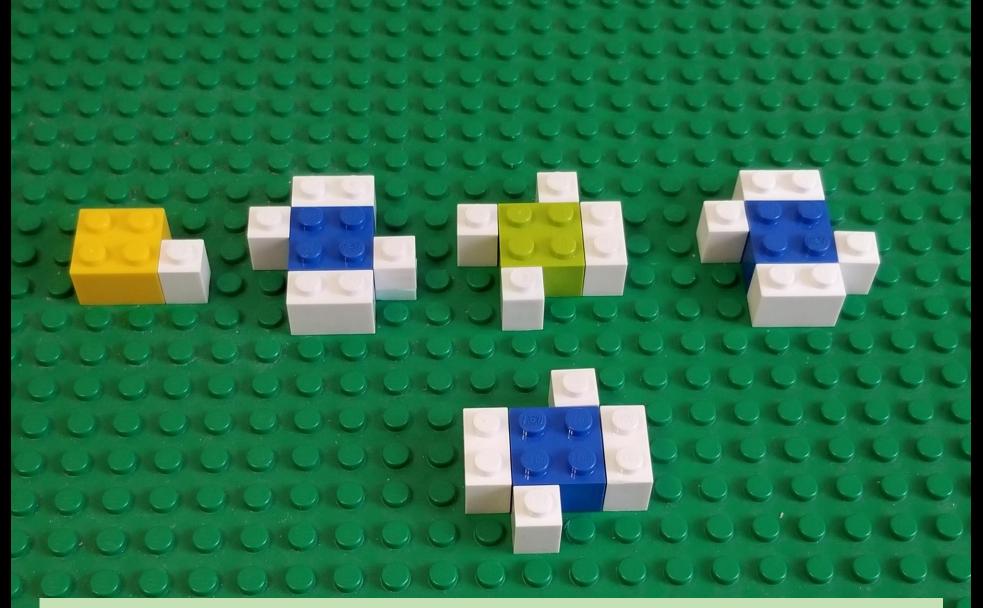
... form two double bonds (here we show that after forming single bonds we have additional valence electrons to form another pair of bonds) ...





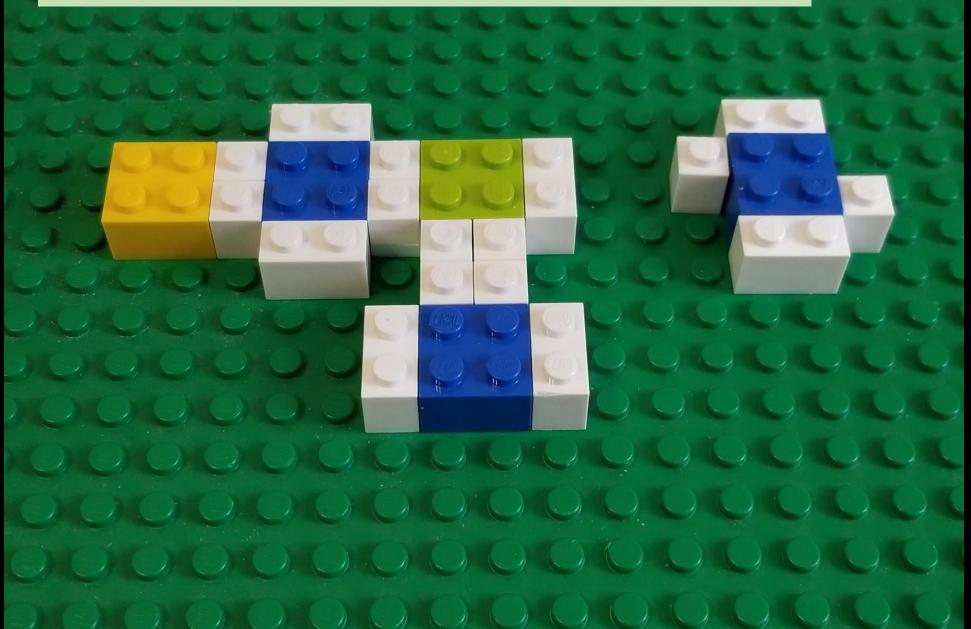


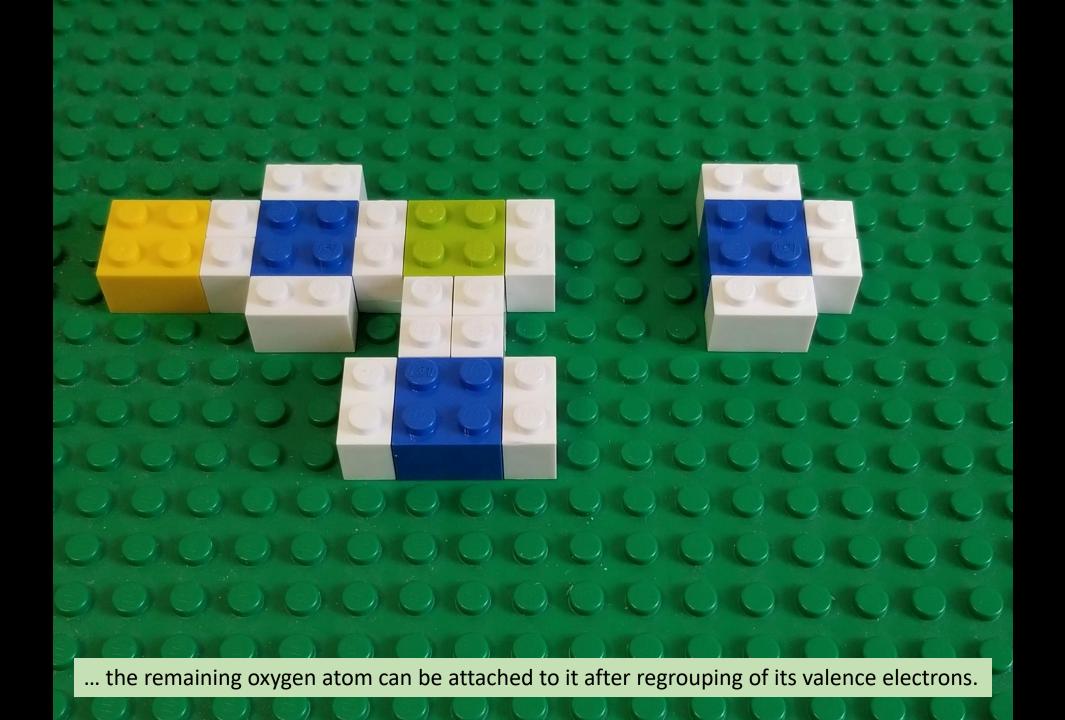
Here are colors for single, double, and triple bonds.

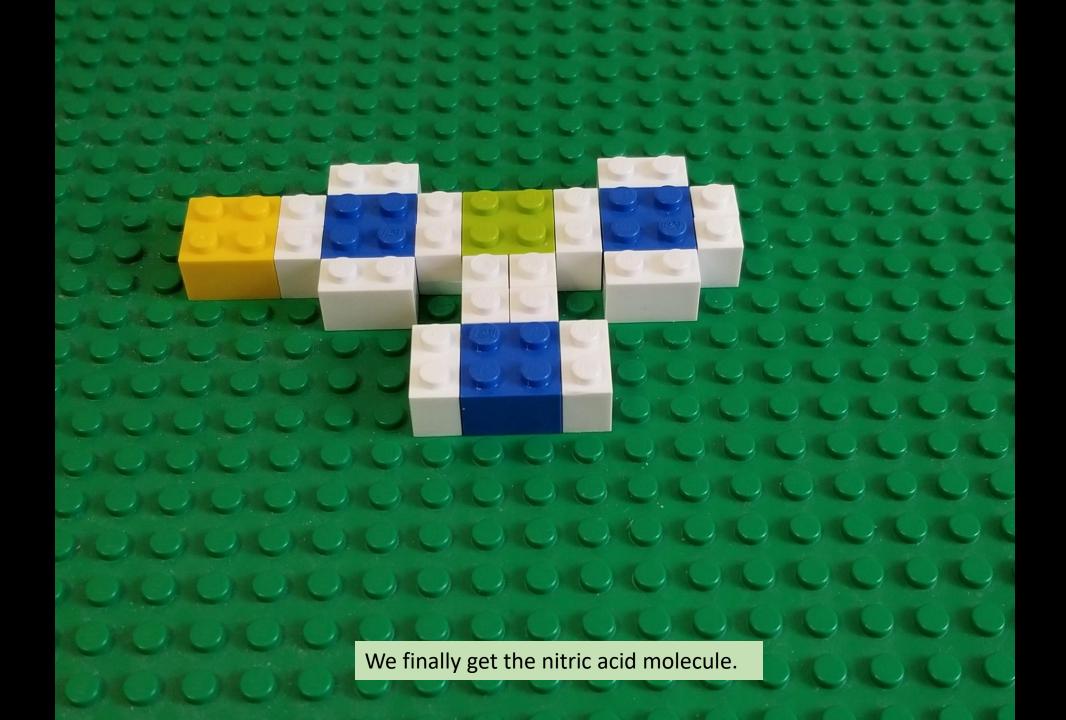


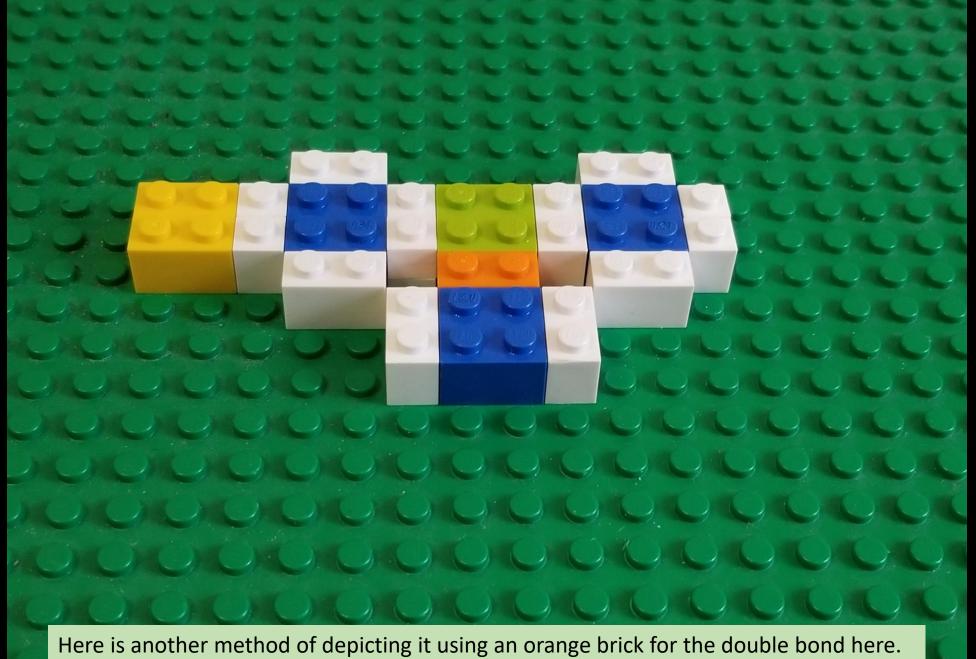
Now we consider the example of a nitric acid molecule  $(HNO_3)$ . If one oxygen atom forms single bonds between hydrogen and nitrogen atoms and another oxygen atom forms a double bond with the nitrogen atom we get ...

... a molecule of nitrous acid (**HNO**<sub>2</sub>). But the nitrogen atom still has one free pair of electrons and, ...









In the next part, we come back to organic molecules again.

