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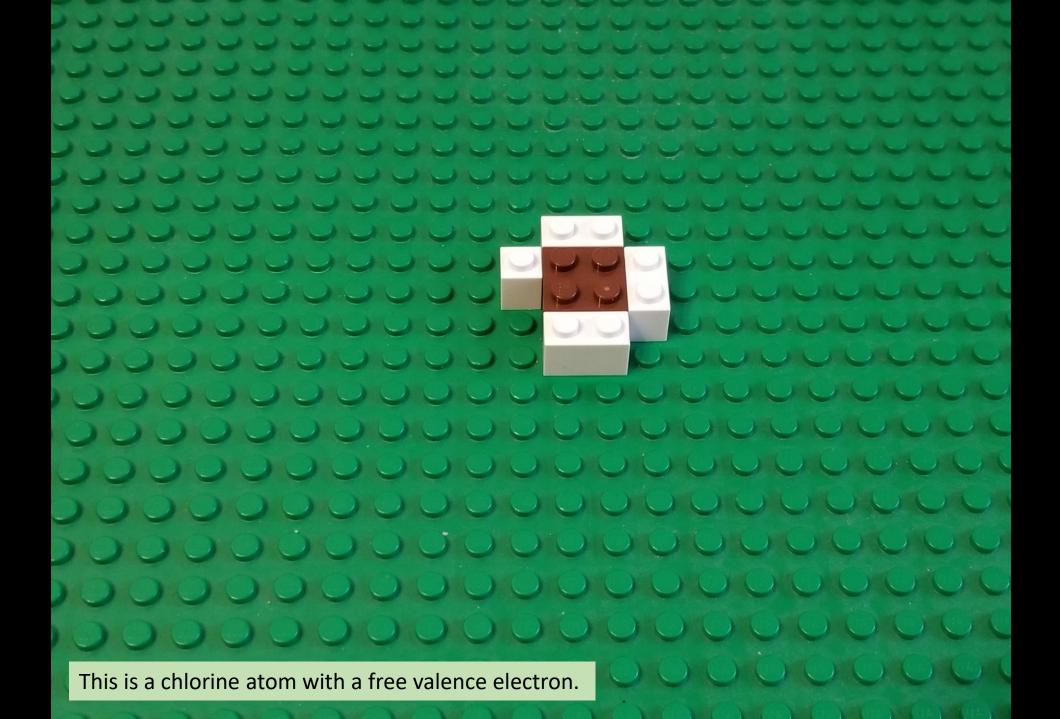
Part 4

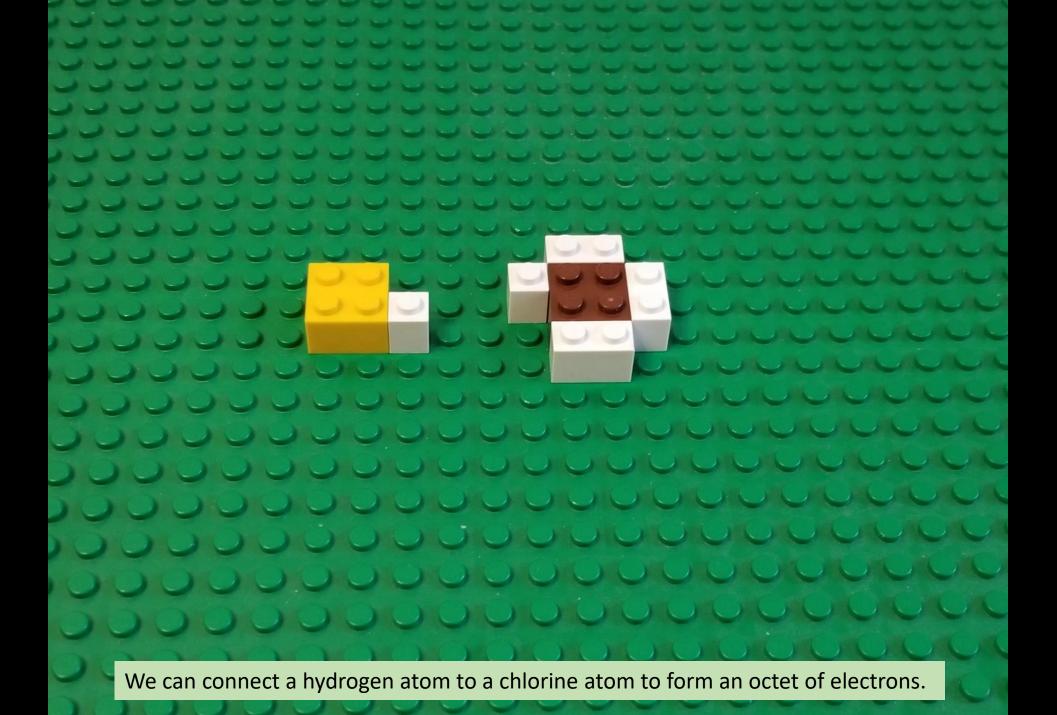
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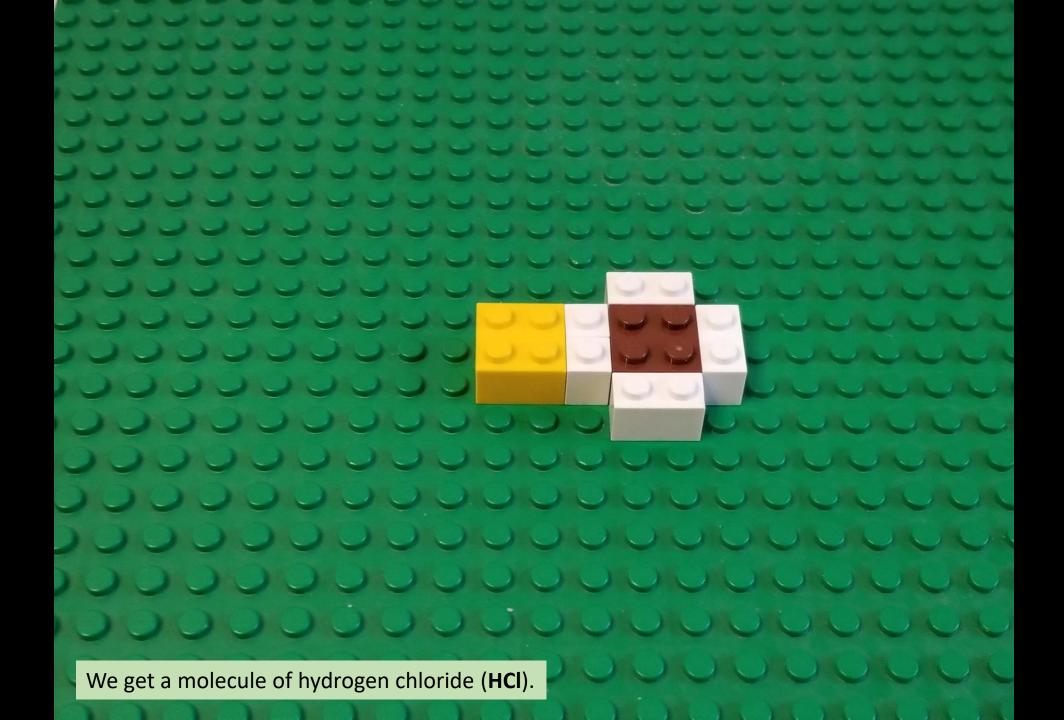
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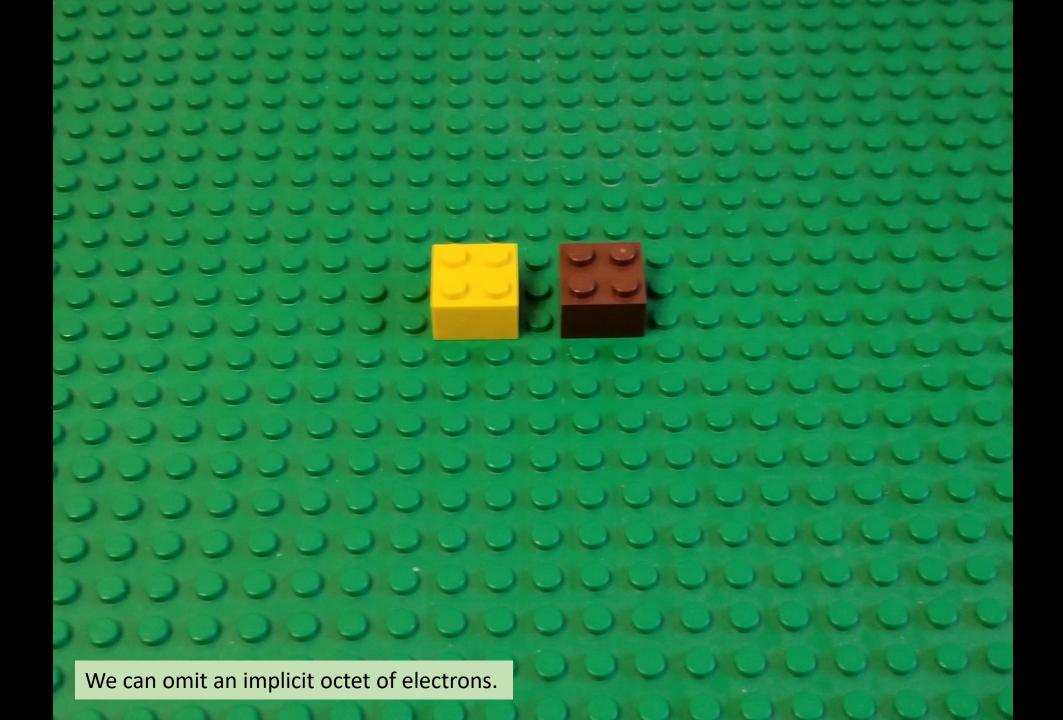
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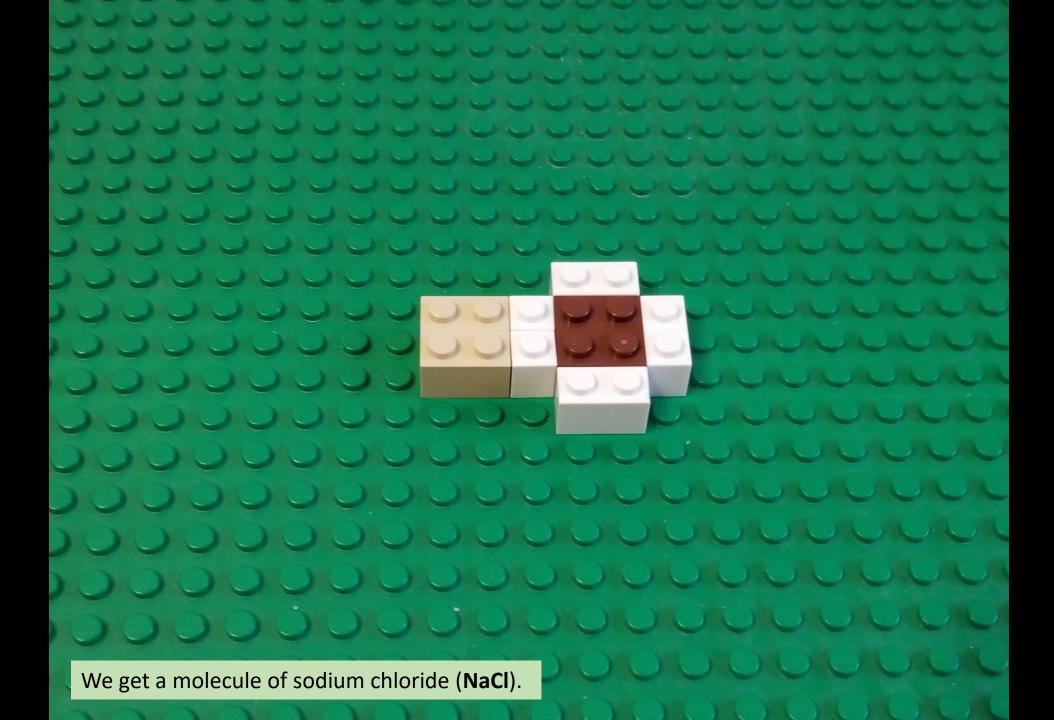


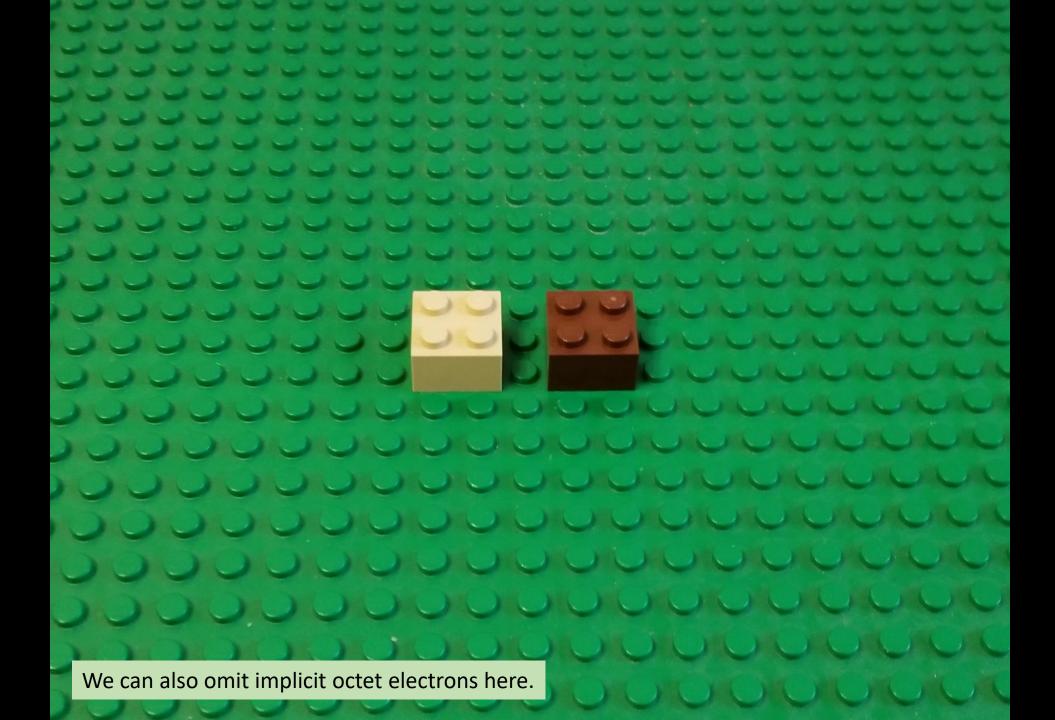


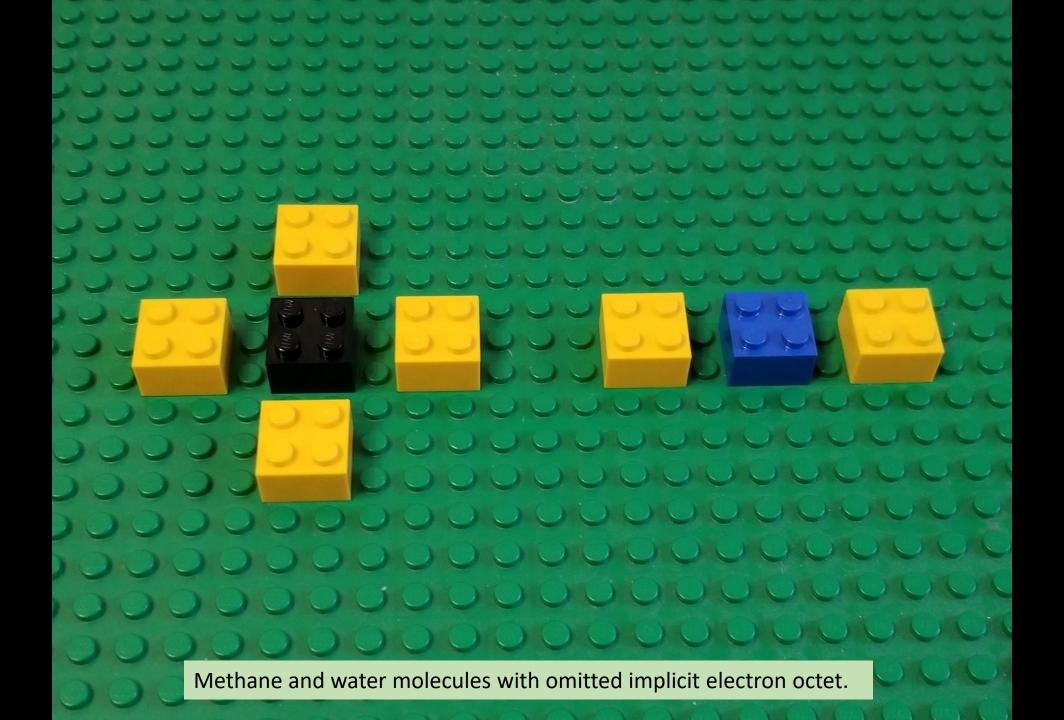


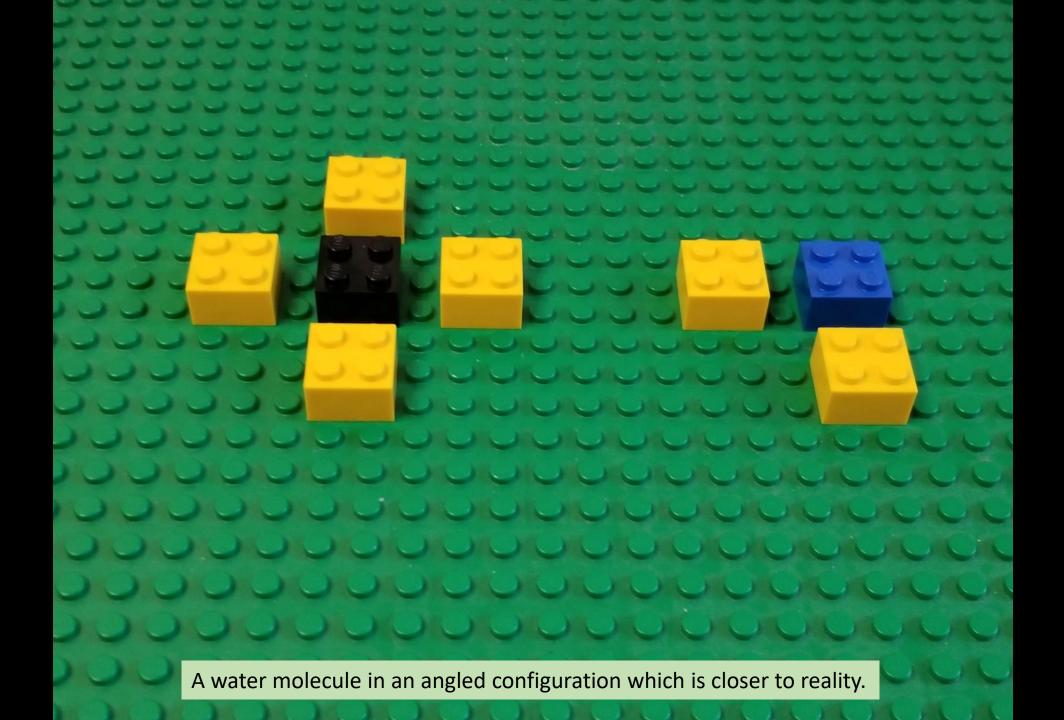
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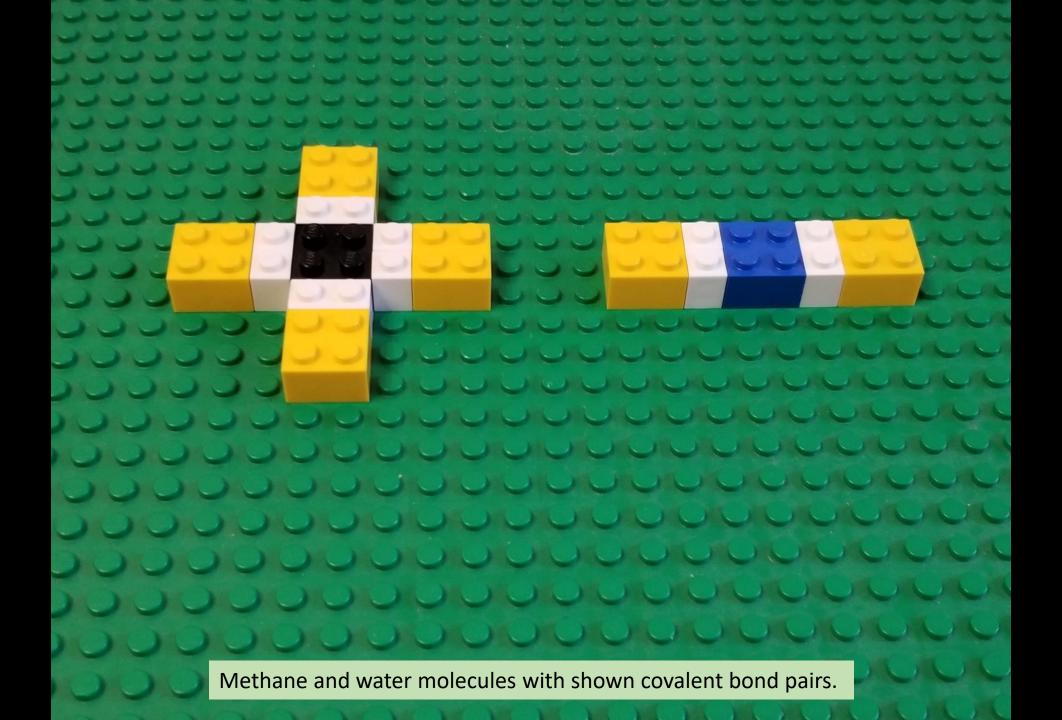
We can also add a sodium atom (**Na**) with one free valence electron to a chlorine atom to form an octet of electrons.

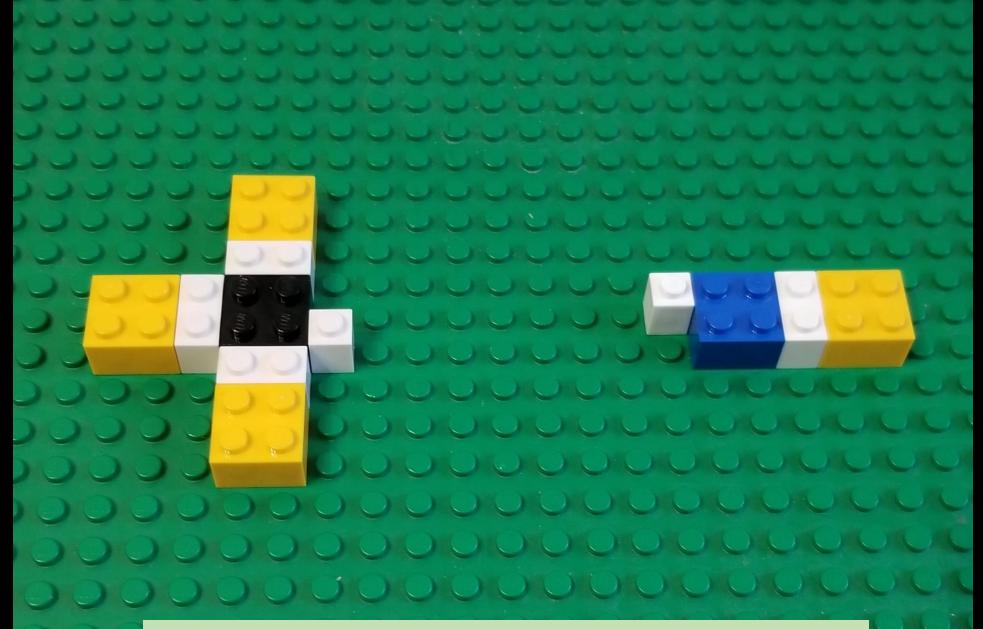






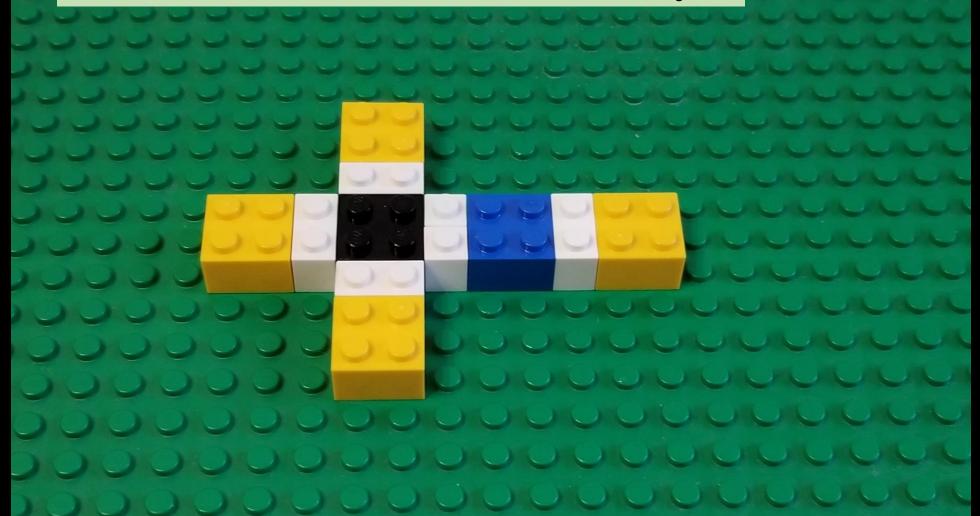




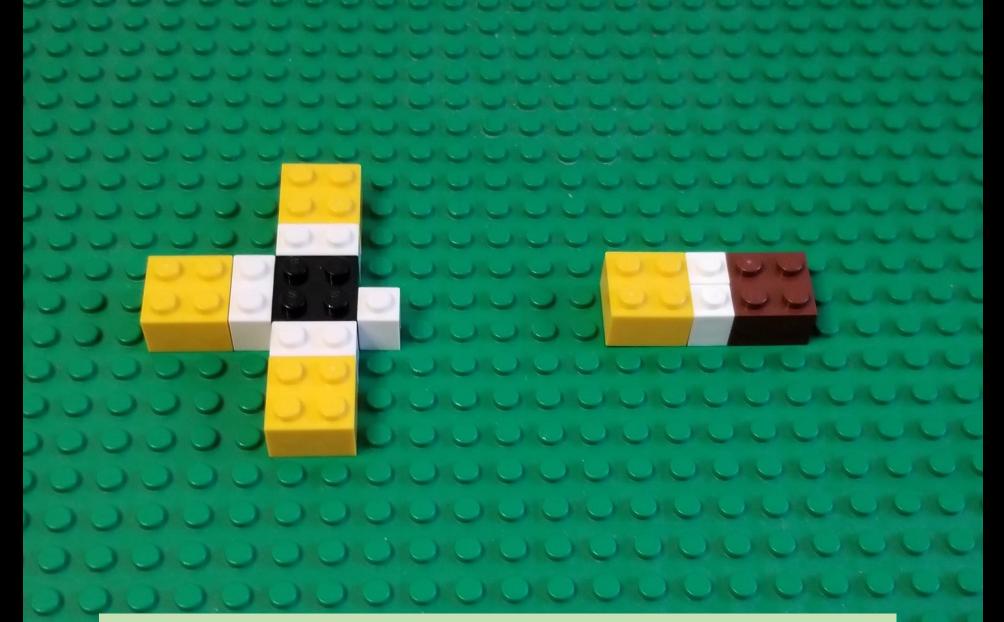


If we remove hydrogen atoms together with one electron from methane and water molecules, we get methyl (-CH₃) and hydroxyl (-OH) groups ...

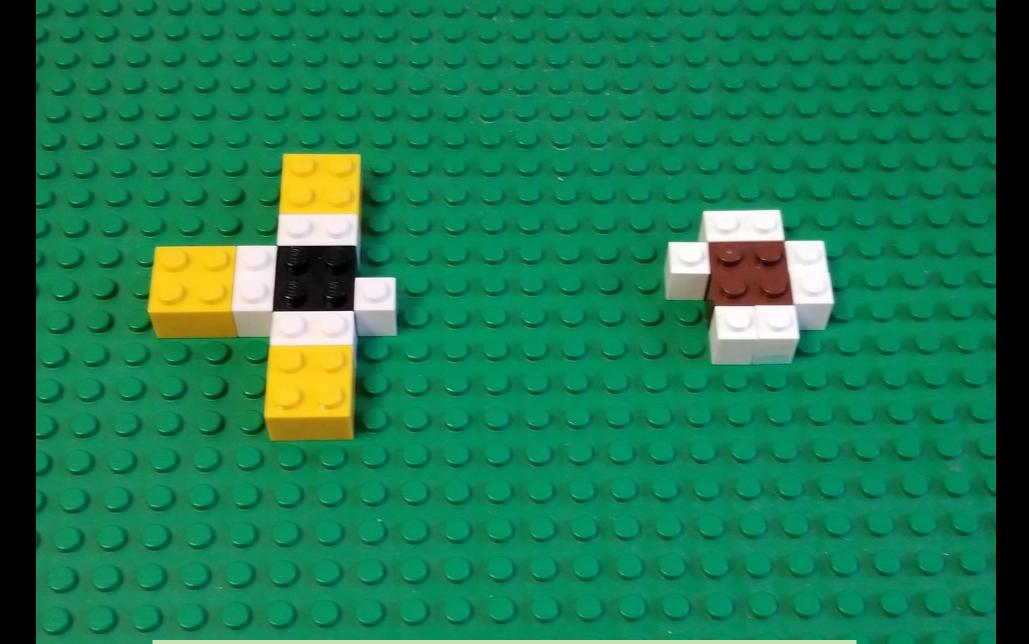
... which can be combined to form a molecule of methanol (**CH₃OH**).



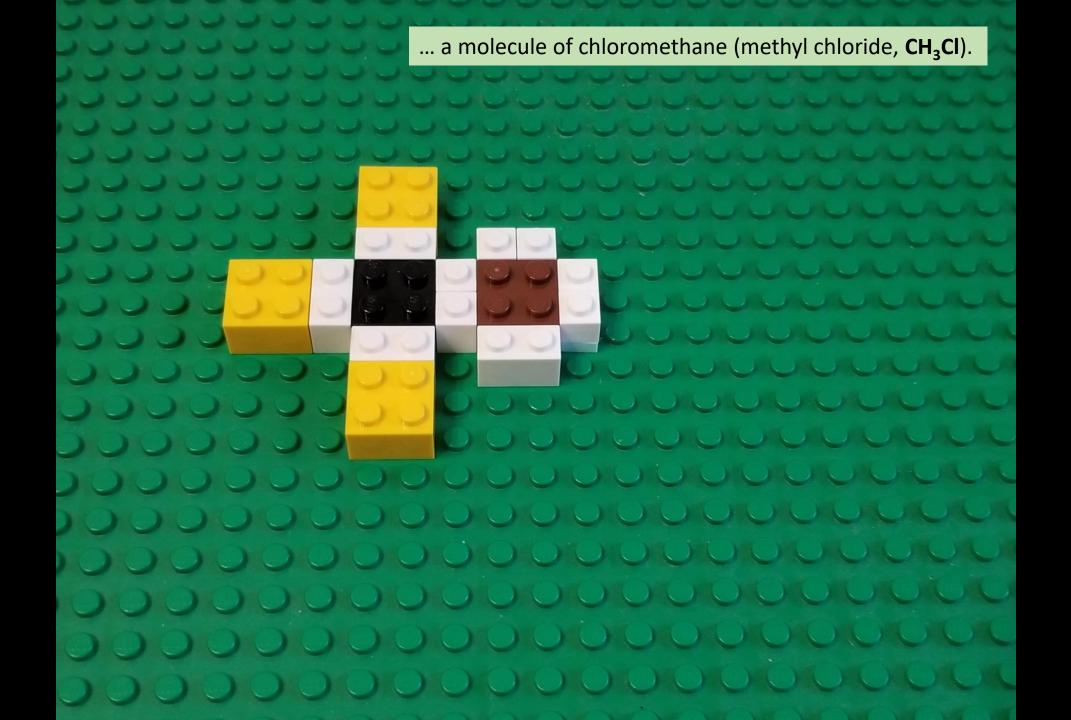
Organic compounds that contain **-OH** group are called alcohols. Groups that contain atoms different from carbon are called **functional groups** because they introduce new functions, properties (for example, solubility in water).

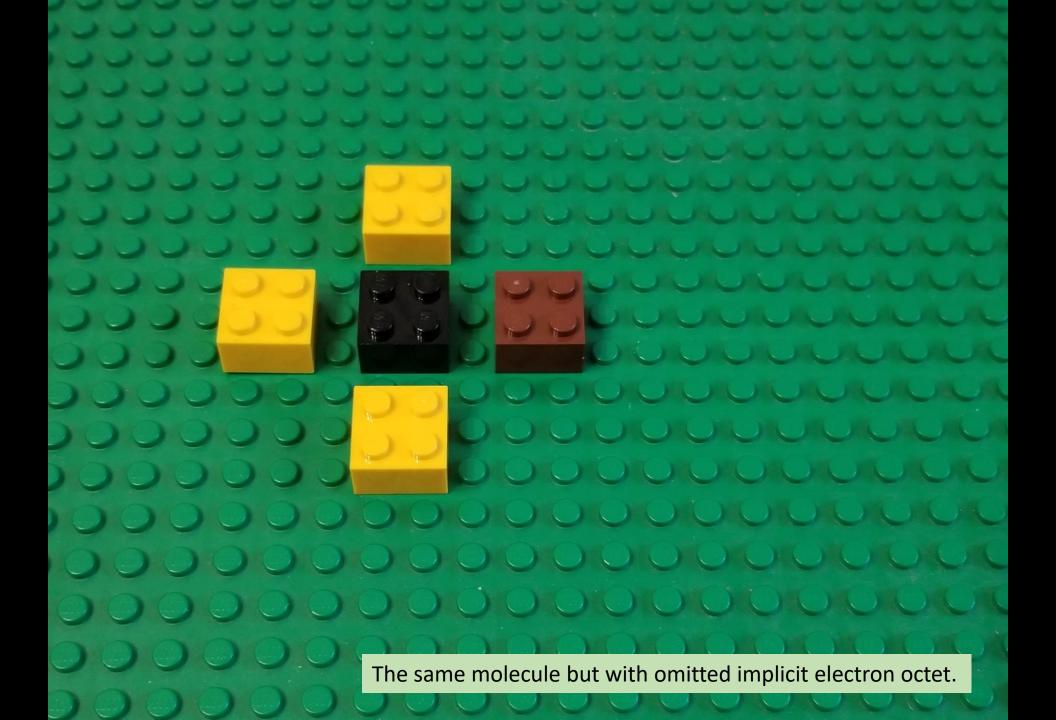


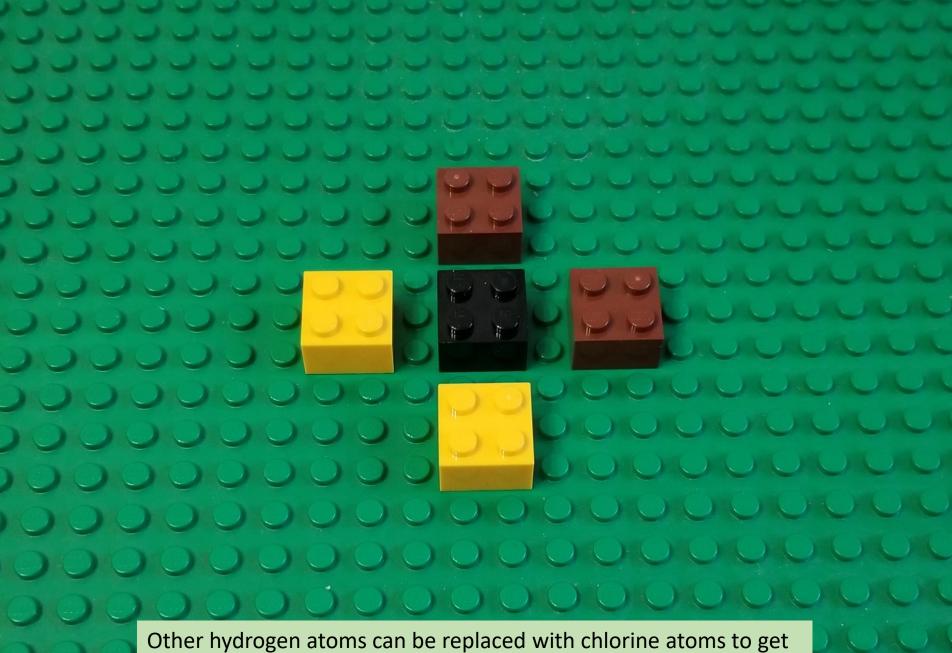
A methyl group and a molecule of hydrogen chloride. We can break a hydrogen atom with its electron from the latter.



As a result, a chlorine atom combines with a methyl group to form ...







molecules of **di**chloromethane (**CH₂Cl₂**), ...

