## Chemistry Brick ° Solution y srick

00000

----

0000

しししし

0000

0000

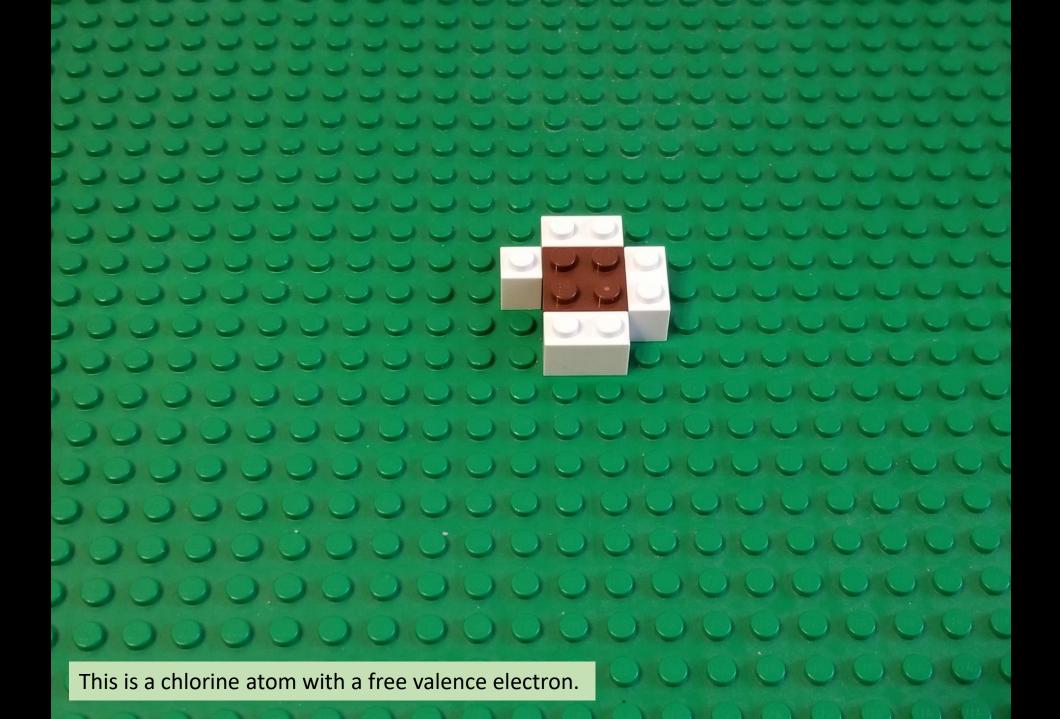
## Part 4

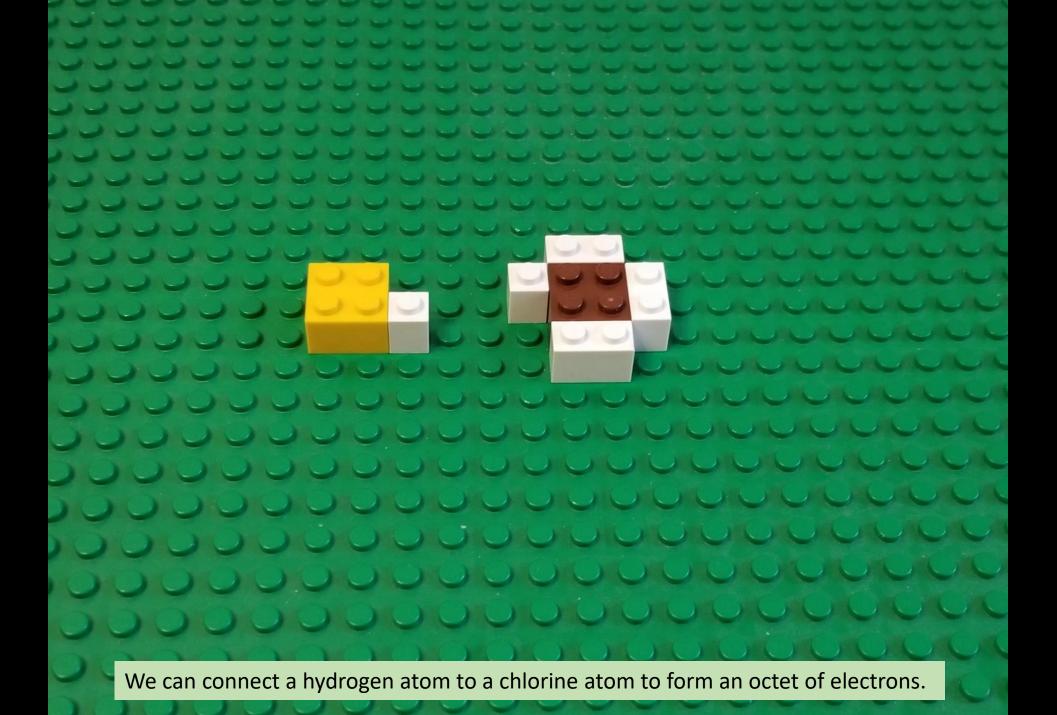
Series Copyright © 2018-2019 by OpenTask Publishing www.ChemistryBrickByBrick.com

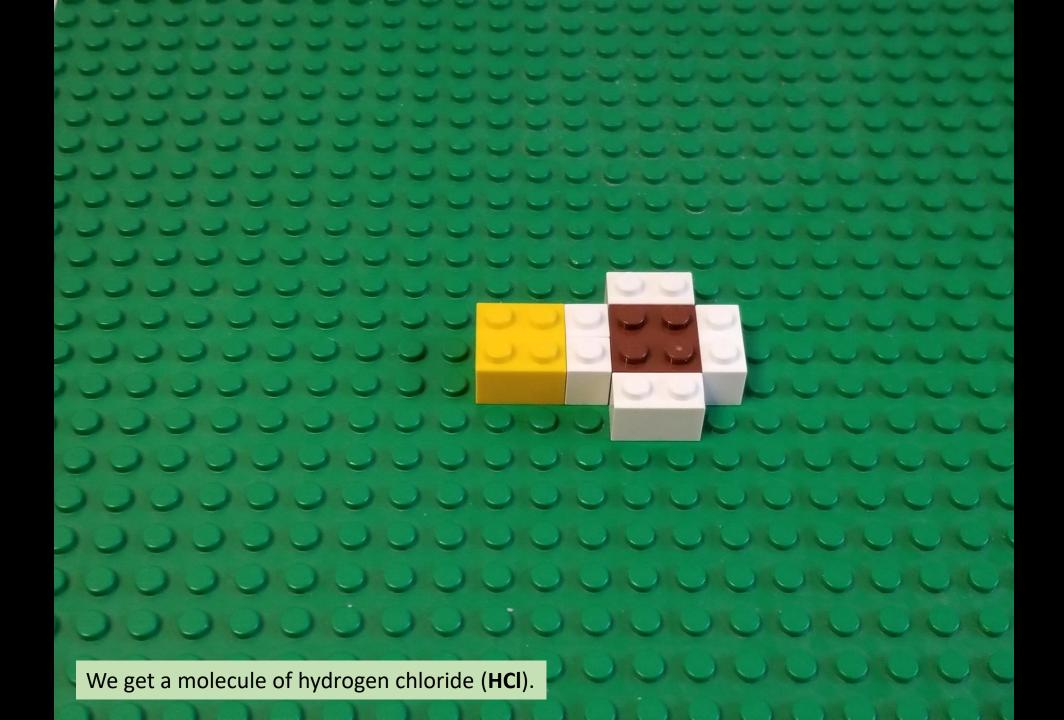
Copyright © 2018-2019 by OpenTask Publishing

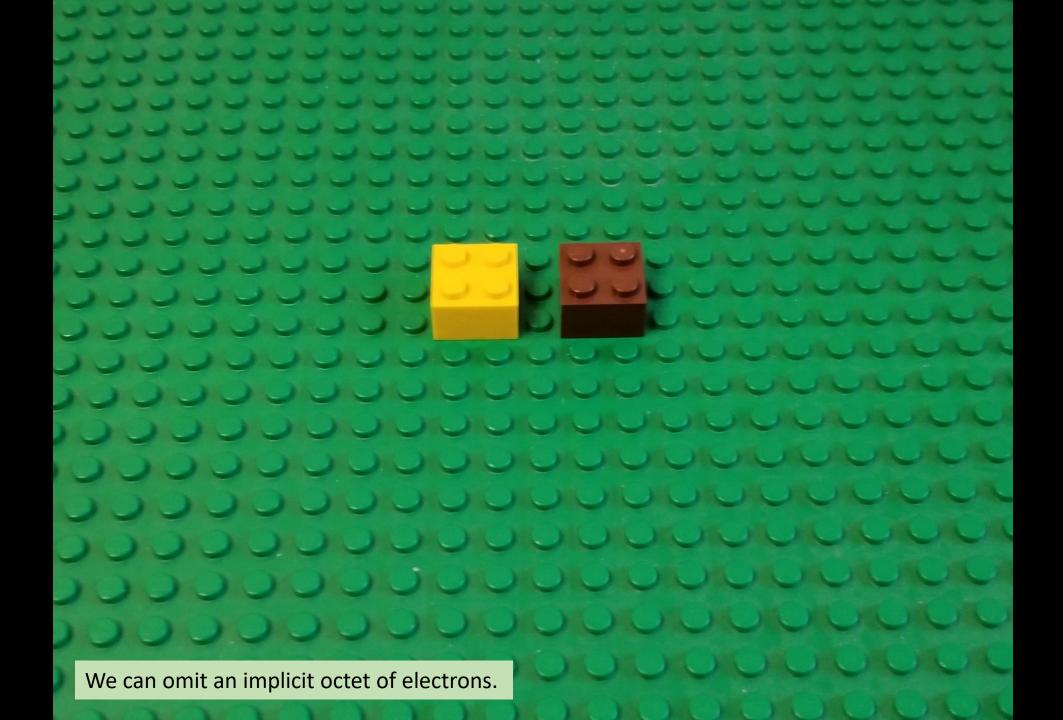
ULULL LLLL LLL LULL JULLU JULL ULLU UUUU UUUL 





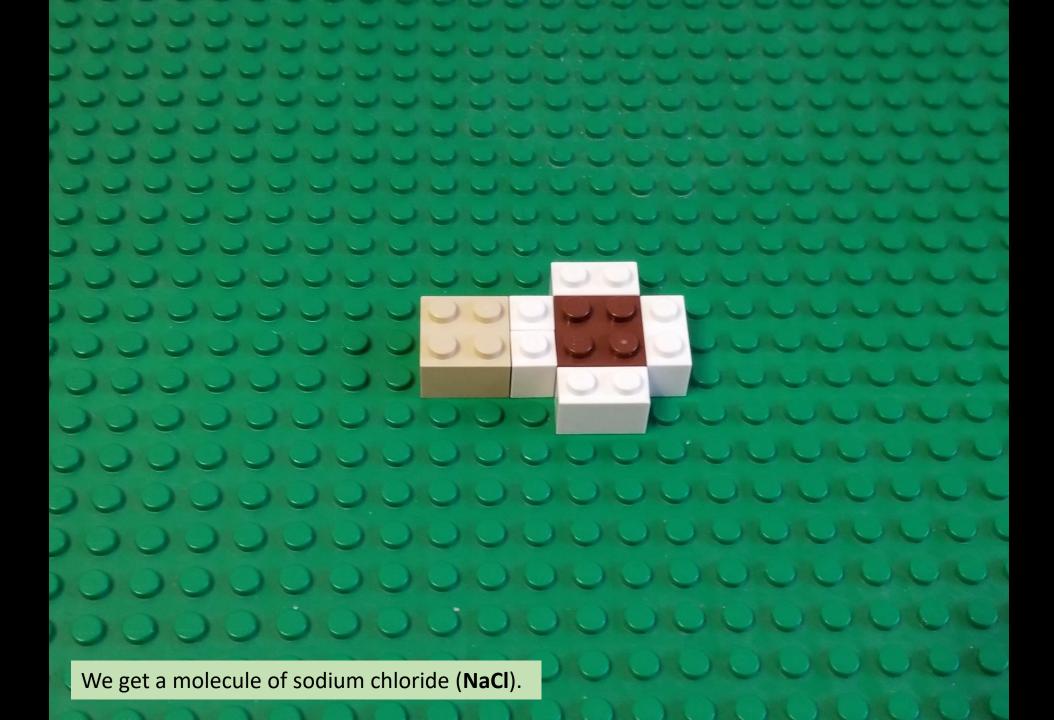


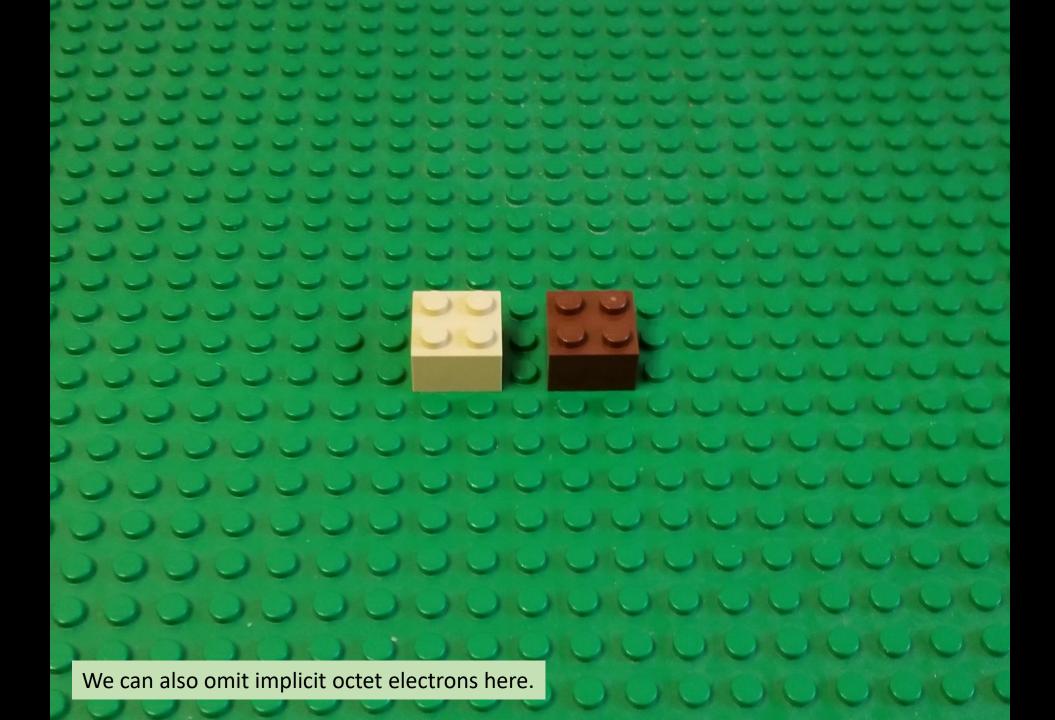


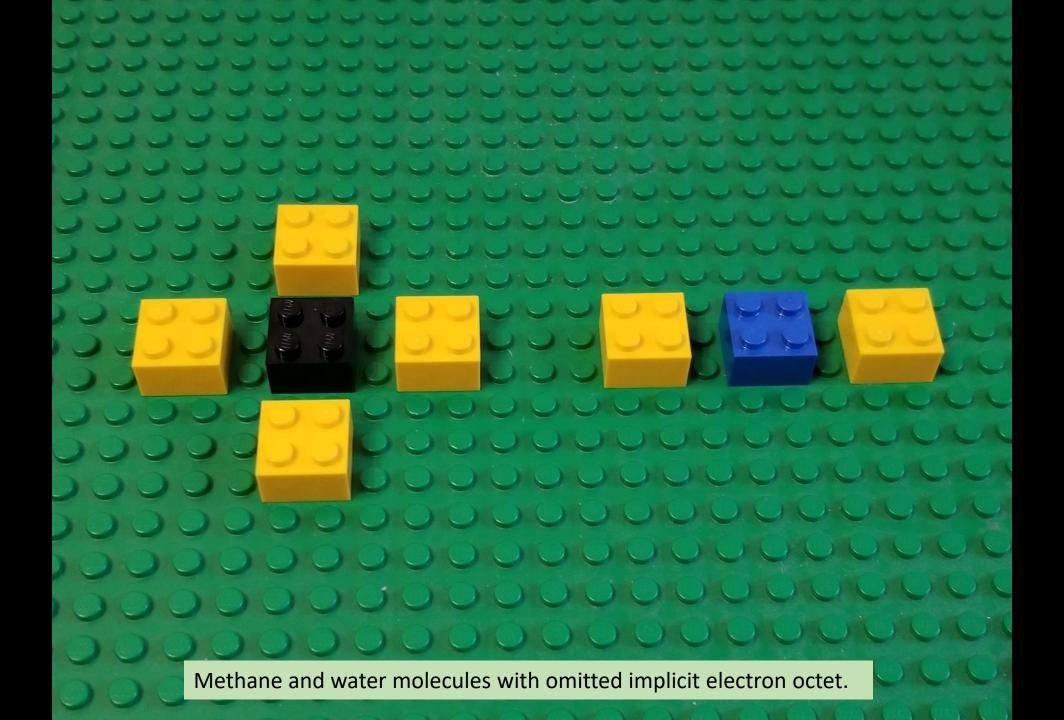


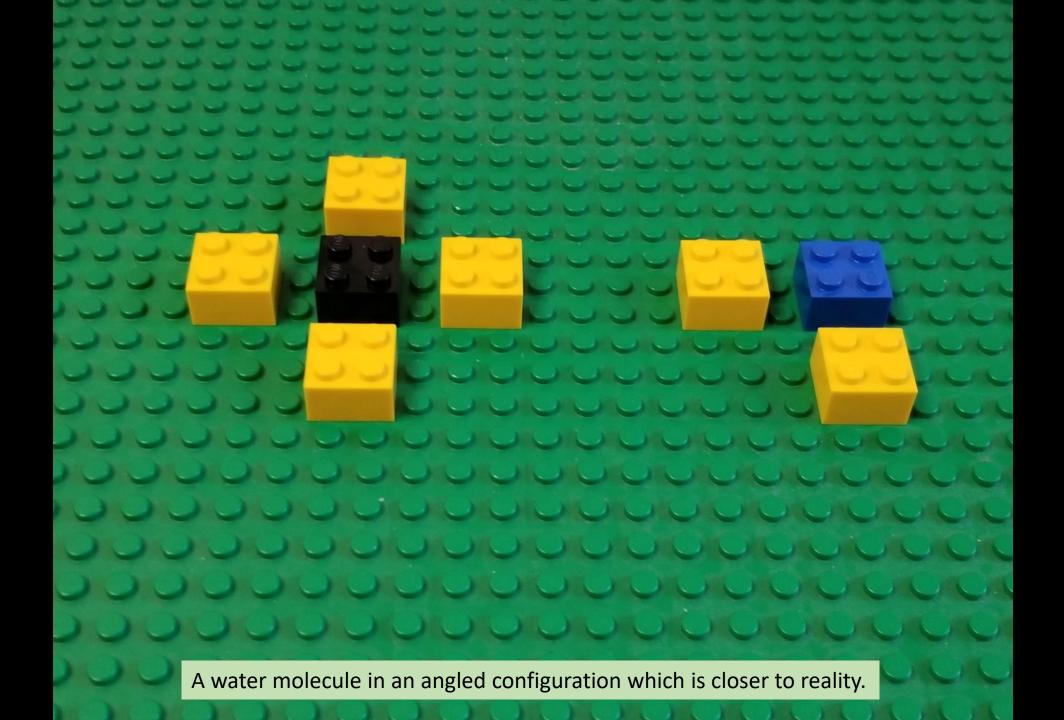
 $\bigcirc$ 200 

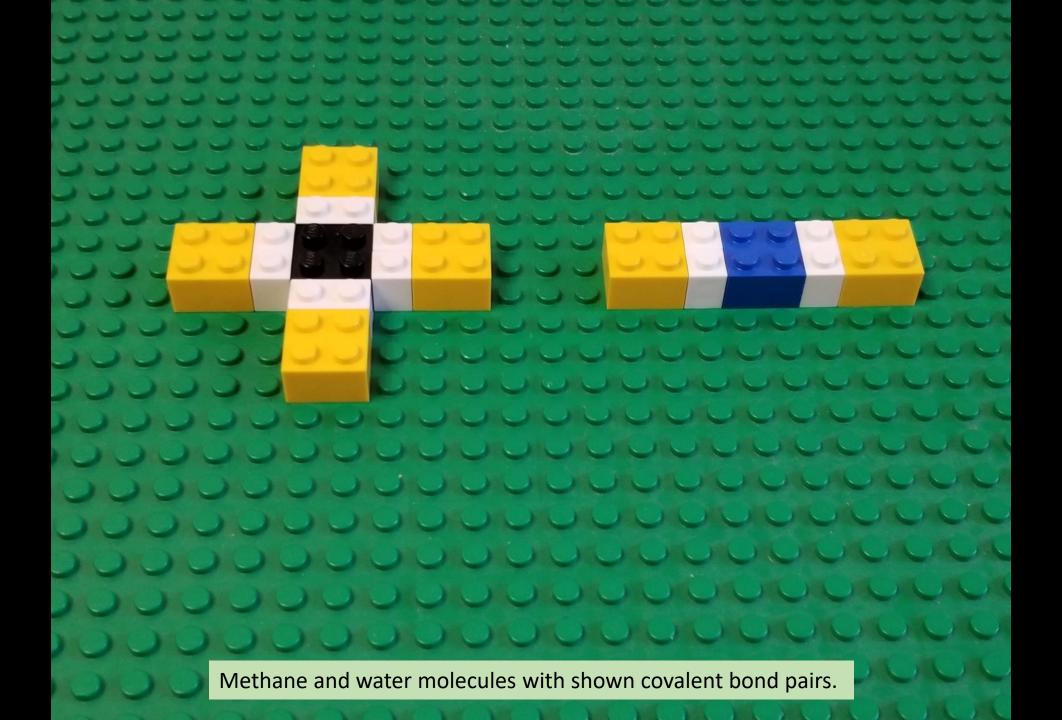
We can also add a sodium atom (**Na**) with one free valence electron to a chlorine atom to form an octet of electrons.

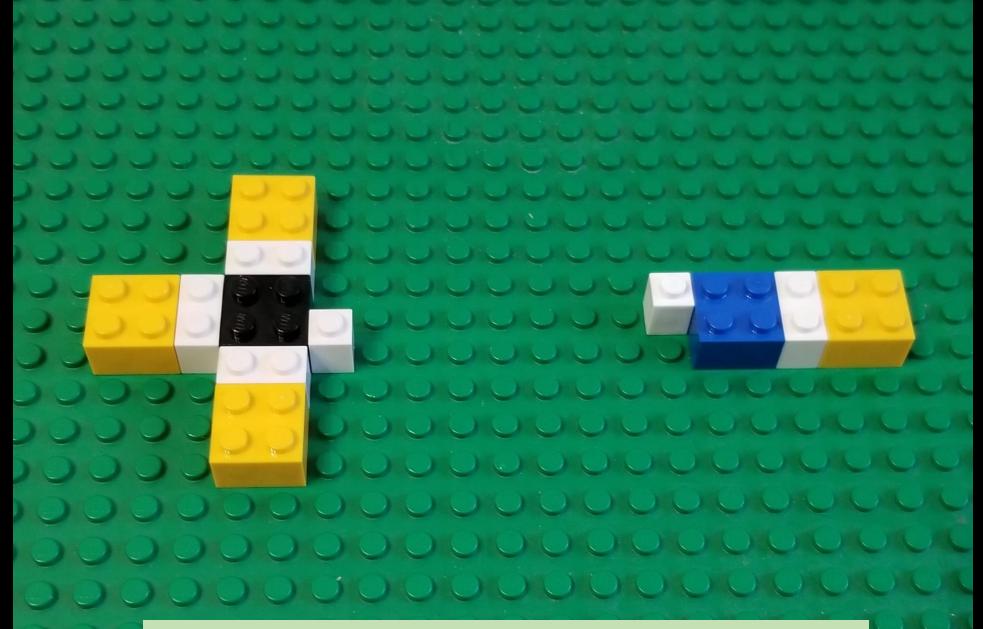






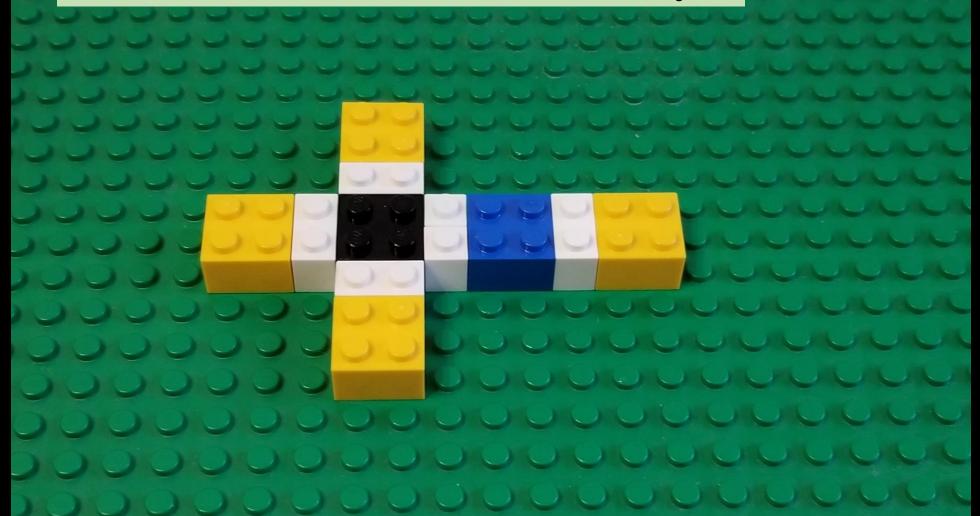




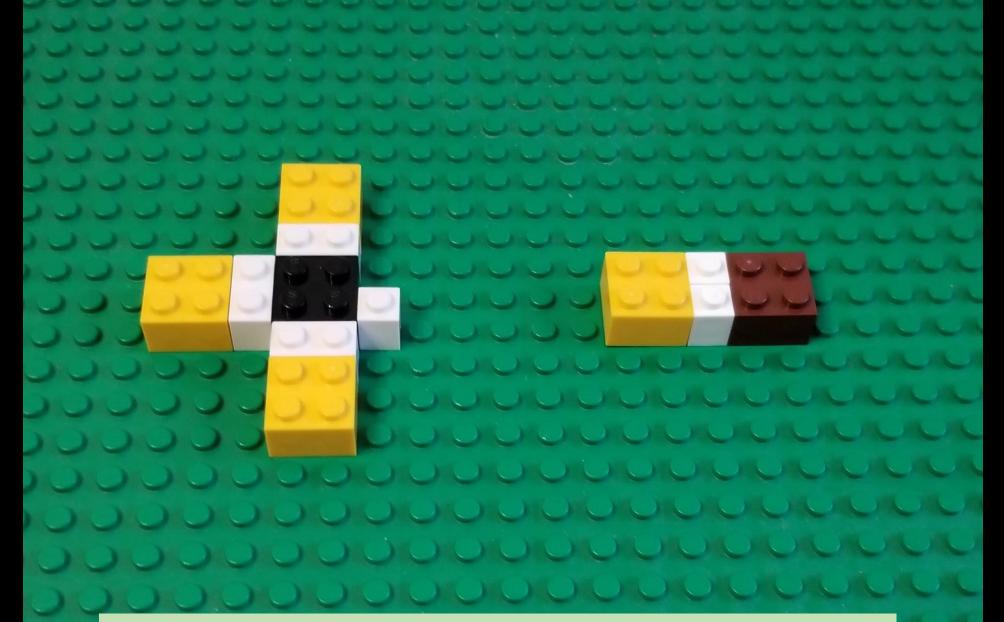


If we remove hydrogen atoms together with one electron from methane and water molecules, we get methyl (-CH<sub>3</sub>) and hydroxyl (-OH) groups ...

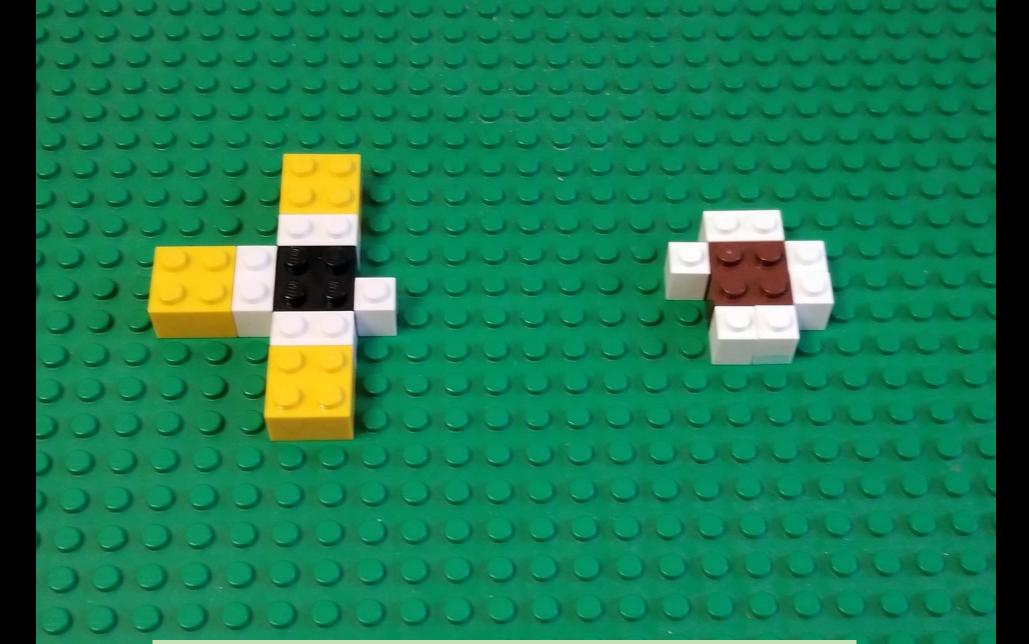
## ... which can be combined to form a molecule of methanol (**CH<sub>3</sub>OH**).



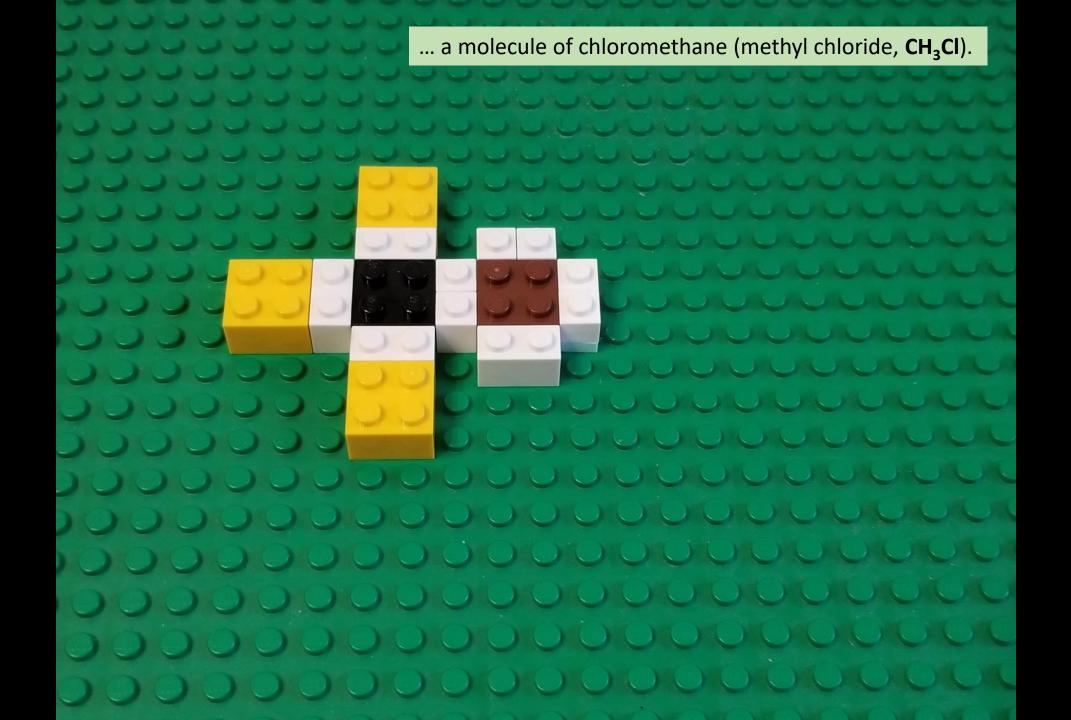
Organic compounds that contain **-OH** group are called alcohols. Groups that contain atoms different from carbon are called **functional groups** because they introduce new functions, properties (for example, solubility in water).

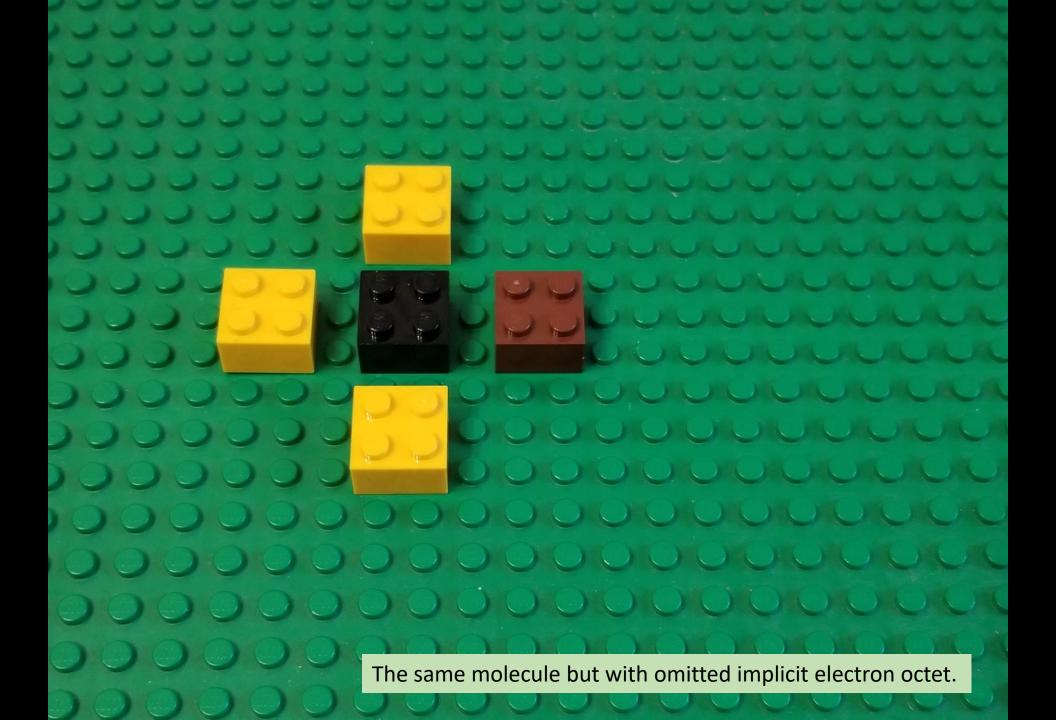


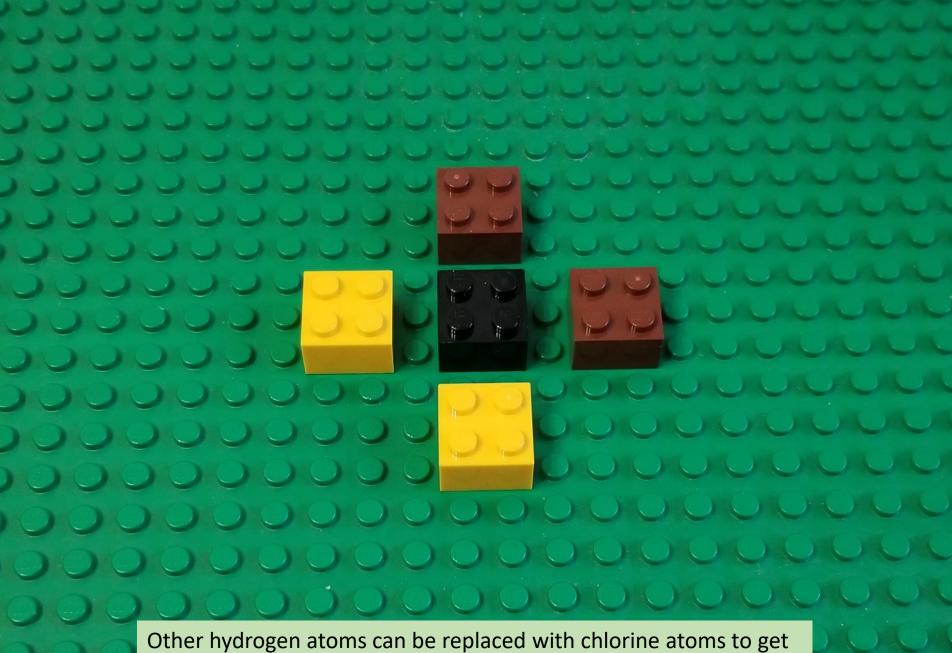
A methyl group and a molecule of hydrogen chloride. We can break a hydrogen atom with its electron from the latter.



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







molecules of **di**chloromethane (**CH<sub>2</sub>Cl<sub>2</sub>**), ...

