

Carbon... SO SIMPLE: Biology #1

The most revolutionary course in biology of all time begins. Learn about covalent and ionic and hydrogen bonds. What about electron orbitals and the octet rule, and what does it all have to do with a madman named Gilbert Lewis. It's all contained within [Music] Carbon is willing and interested to bond with lots of different molecules like hydrogen, oxygen, phosphorus, nitrogen, or to other molecules of carbon. It can do this in infinite configurations, allowing it to be the core atom of complicated structures that make living things like ourselves. Life is entirely based on this element. Carbon is the foundation of biology. The little Lewis dot structure that we use to represent how atoms bond to each other is something that was created by a troubled mad genius. It's not some abstract scientific thing that's always existed. It's a tool that was thought up by a guy, and it was so useful that we've been using it ever since in biology, most compounds can be displayed in Lewis dot structure form..

Instead of sharing electrons atoms just completely uncharacteristically donate or accept an electron from another atom and then live happily as a charged atom.. The most common ionic compound in our daily lives is table salt sodium chloride NaCl. This stuff despite its deliciousness as I mentioned previously, is made up of two really nasty chemicals, sodium and chlorine. The strength of covalent bonds varies wildly. How these bonds are made and broken is intensely important to life and to our lives making and breaking bonds is in fact the key to life itself.. Even the sexiest person you have ever met in your life is just a collection of organic compounds rambling around..