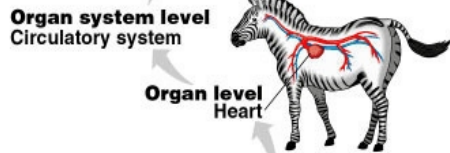


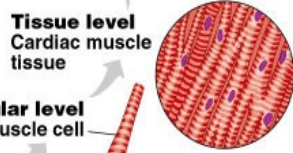


Organism level
Zebra (Includes several organ systems)



Organ system level
Circulatory system

Organ level
Heart



Tissue level
Cardiac muscle tissue

Cellular level
Cardiac muscle cell

Organelle level
Cell nucleus

Molecular level
DNA

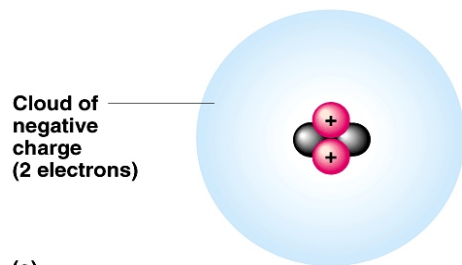
Atomic level
Oxygen atom

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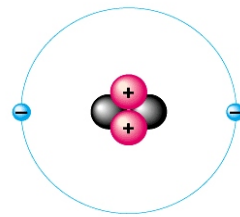
Table 2.1 Naturally Occurring Elements in the Human Body

Symbol	Element	Atomic Number (See p. 29)	Percentage of Human Body Weight
O	Oxygen	8	65.0
C	Carbon	6	18.5
H	Hydrogen	1	9.5
N	Nitrogen	7	3.3
Ca	Calcium	20	1.5
P	Phosphorus	15	1.0
K	Potassium	19	0.4
S	Sulfur	16	0.3
Na	Sodium	11	0.2
Cl	Chlorine	17	0.2
Mg	Magnesium	12	0.1

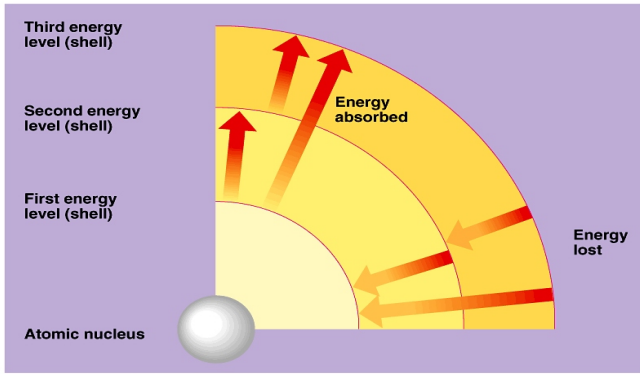
Trace elements (less than 0.01%): boron (B), chromium (Cr), cobalt (Co), copper (Cu), fluorine (F), iodine (I), iron (Fe), manganese (Mn), molybdenum (Mo), selenium (Se), silicon (Si), tin (Sn), vanadium (V), and zinc (Zn).





















(a)
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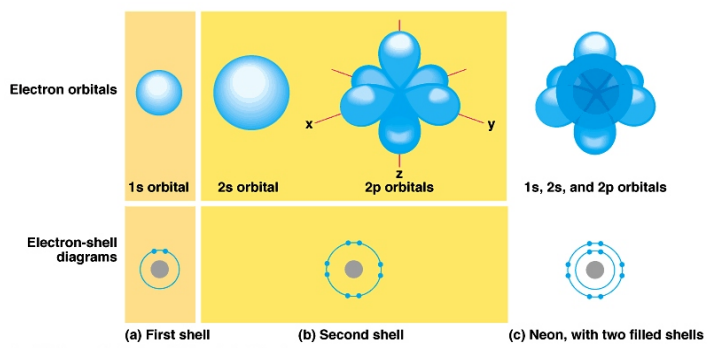
(b)

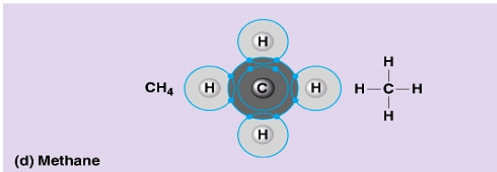
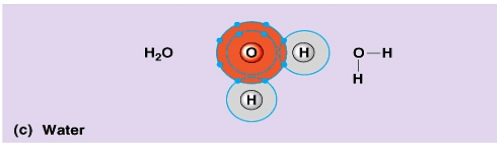
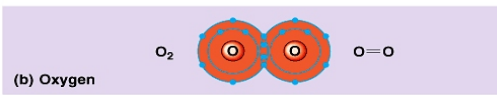
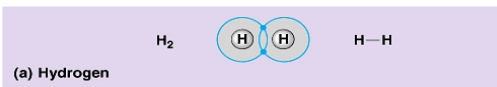


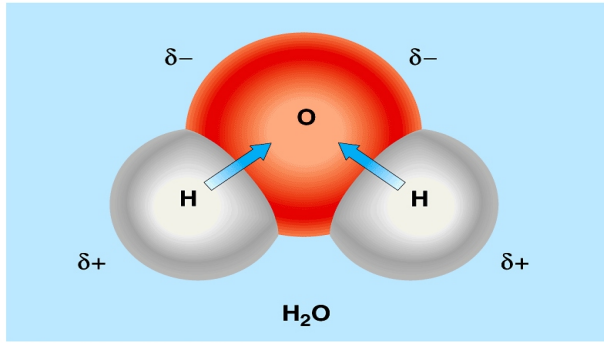
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First shell	Hydrogen ${}_{1}\text{H}$ 							Helium ${}_{2}\text{He}$ 
Second shell	Lithium ${}_{3}\text{Li}$ 	Beryllium ${}_{4}\text{Be}$ 	Boron ${}_{5}\text{B}$ 	Carbon ${}_{6}\text{C}$ 	Nitrogen ${}_{7}\text{N}$ 	Oxygen ${}_{8}\text{O}$ 	Fluorine ${}_{9}\text{F}$ 	Neon ${}_{10}\text{Ne}$ 
Third shell	Sodium ${}_{11}\text{Na}$ 	Magnesium ${}_{12}\text{Mg}$ 	Aluminum ${}_{13}\text{Al}$ 	Silicon ${}_{14}\text{Si}$ 	Phosphorus ${}_{15}\text{P}$ 	Sulfur ${}_{16}\text{S}$ 	Chlorine ${}_{17}\text{Cl}$ 	Argon ${}_{18}\text{Ar}$ 

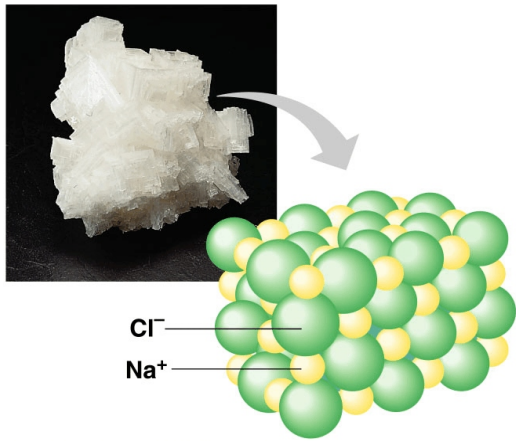
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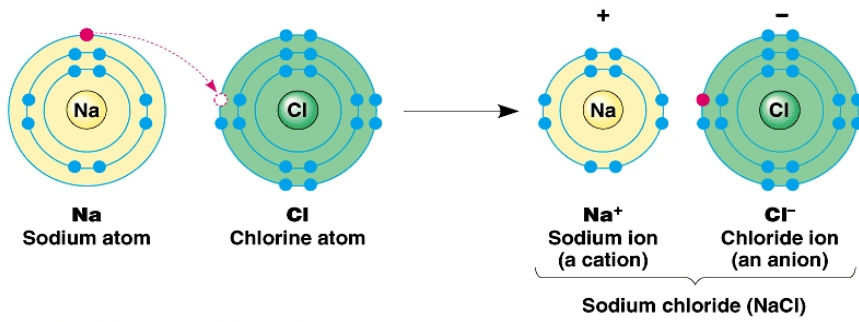




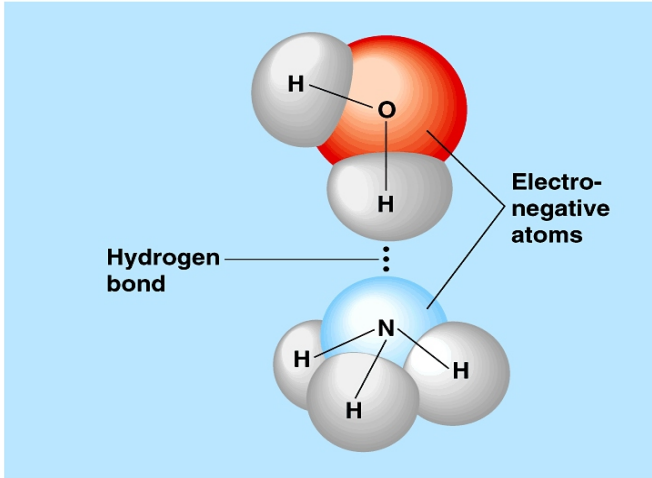
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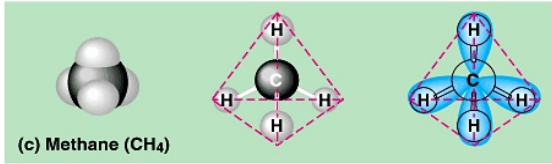
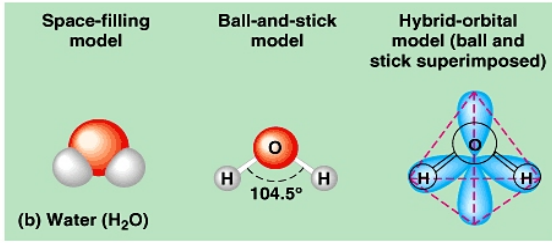
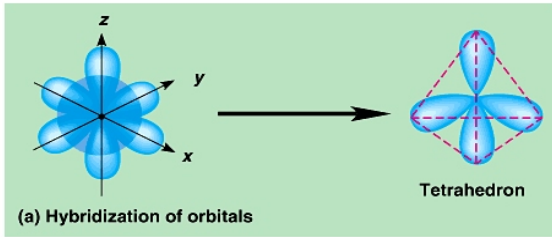
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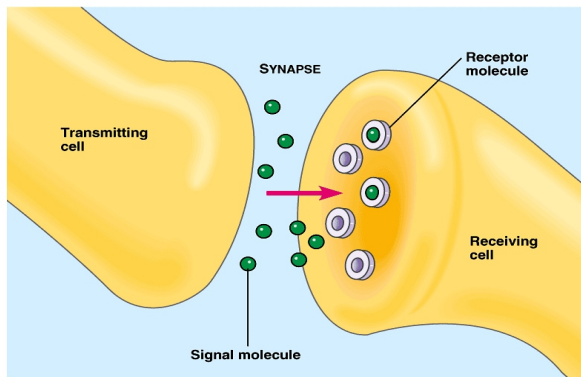


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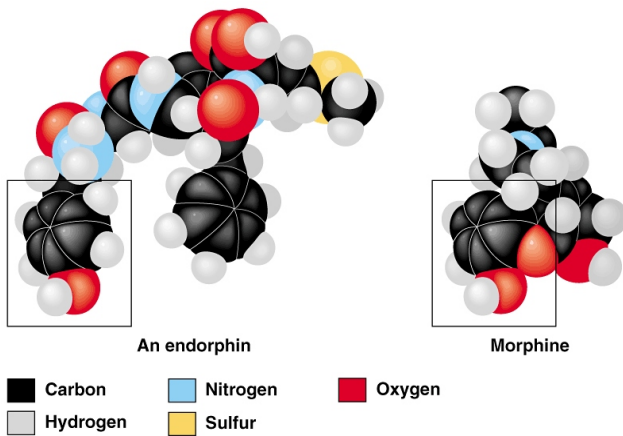


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