BIO107 Introduction to Biotechnology

Dr. Ty C.M. Hoffman bio107hoffman@gmail.com

Science Versus Religion

Religion is based on faith in the absence of evidence.

Science is based on evidence that leads to belief.

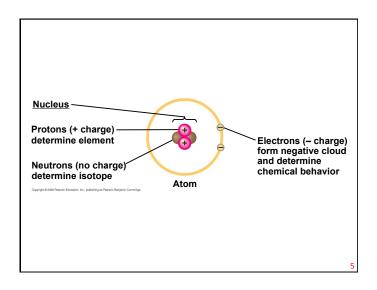
1

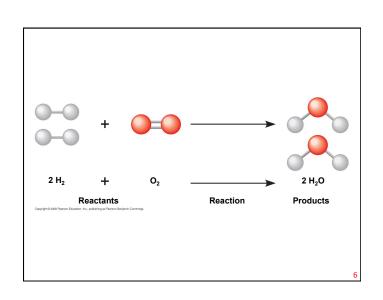
What is Chemistry?

What is Biology?

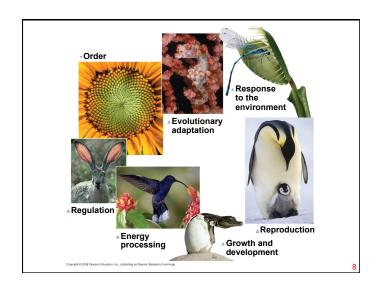
What is Biotechnology?

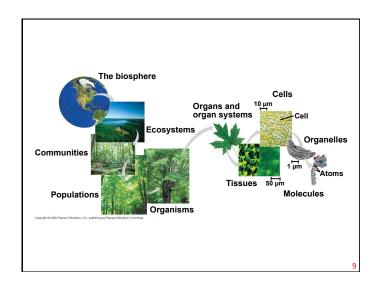
Sodium
Chlorine
Sodium
chloride

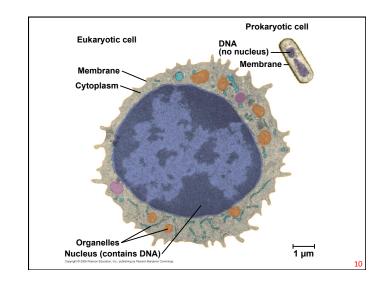


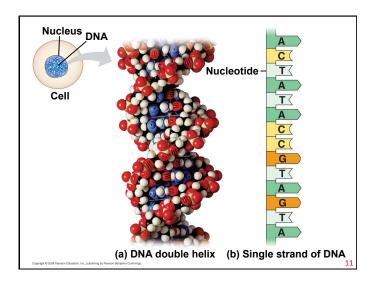


		Atomic	Percentage
Symbol	Element	Number (see p. 33)	of Human Body Weight
Elements	making up abo	ut 96% of huma	n body weight
0	Oxygen	8	65.0
С	Carbon	6	18.5
Н	Hydrogen	1	9.5
N	Nitrogen	7	3.3
Elements	making up abo	ut 4% of huma	n body weight
Ca	Calcium	20	1.5
P	Phosphorus	15	1.0
K	Potassium	19	0.4
S	Sulfur	16	0.3
Na	Sodium	11	0.2
Cl	Chlorine	17	0.2
Mg	Magnesium	12	0.1
	making up less ace elements)	than 0.01% of	human body
fluorine (F molybden), iodine (I), iro	, cobalt (Co), cop n (Fe), manganes um (Se), silicon (e (Mn),









Classes of Biological Macromolecules

- Lipids
- Polysaccharides
- Proteins
- Nucleic Acids

12









