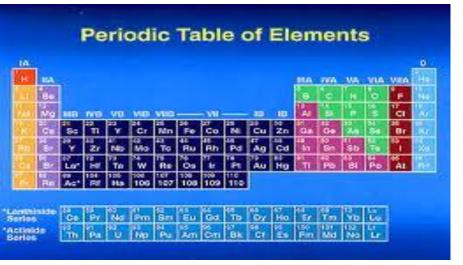
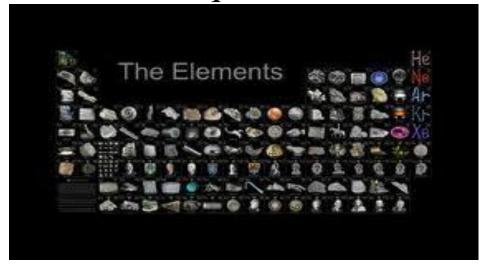
3-3Chemical Compounds in Cells

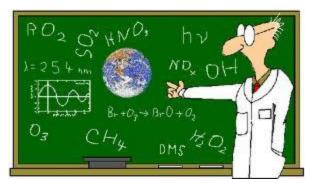
In this PPT I will define elements and compounds and the functions of carbohydrates, lipids, proteins, and nucleic acids.

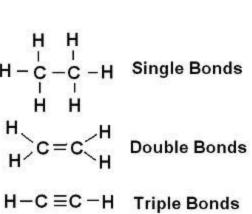
- 1. An element is any substance that cannot be broken down into simpler substances. Think oxygen.
- 2. A compound is a combination of 2 or more elements. Think water.
- 3. Most chemical reactions in the cell require water.

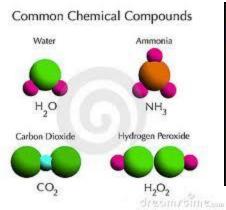


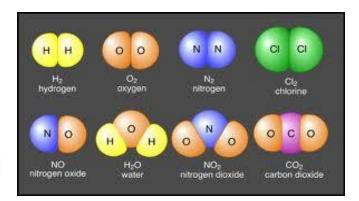


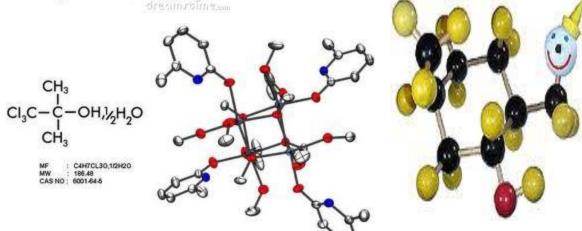
Images of compounds











- 4. Inorganic compounds don't contain the element carbon, while *organic compounds* do **contain carbon**.
- 5. The organic compounds are: carbohydrates, lipids, proteins, and nucleic acids.
- 6. Carbohydrates (CHO) are loaded with energy your body may use. Examples of CHO are sugars and starches.

Carbohydrate images

Simple carbohydrates are

milk, and vegetables

Cake, candy, and

other refined sugar

products are simple

sugars which also provide energy but lack vitamins, minerals, and fiber

found in foods such as fruits,



*ADAM





*ADAM

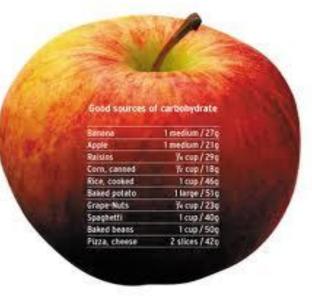


"You have to realise that as a potato you are a very complex carbohydrate."

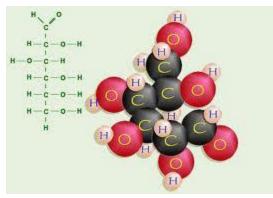
Carbohydrate images

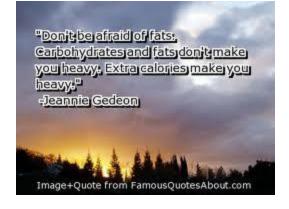






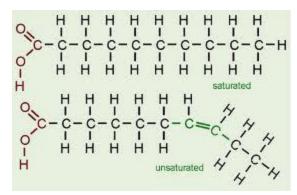


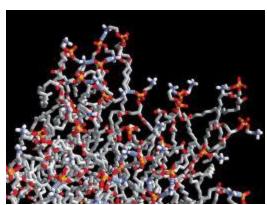


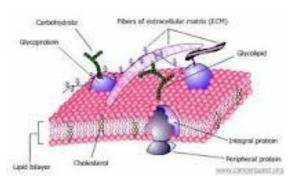


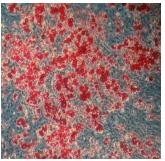
7. The second organic compound are lipids. These are fats, oils, and waxes.

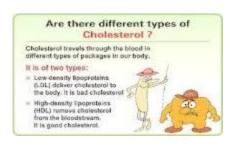


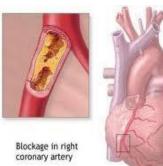






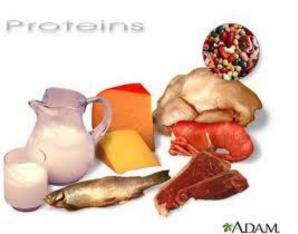


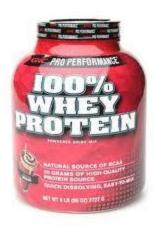




- 8. Proteins are large molecules found in fish, eggs, meat and nuts.
- 9. Proteins are made of smaller molecules called amino acids.

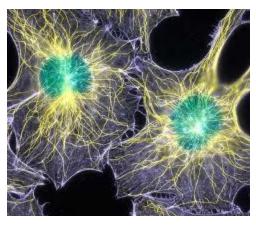
10. One type of protein is called an enzyme that speeds up chemical reactions in the cell.

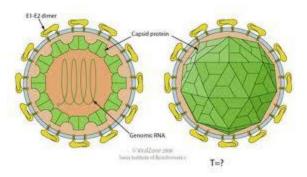


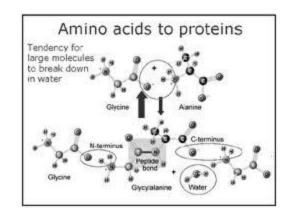


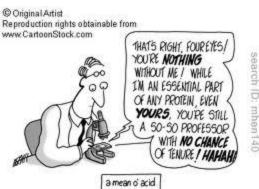


Protein Images



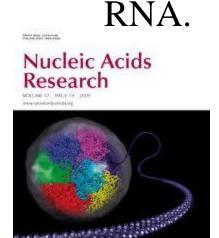








- 11. The final organic compound are called <u>nucleic acids</u>.
- 12. This is the material that allows the nucleus to control the cell.
- 13. There are two kinds of nucleic acids: DNA and



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