

micro universe

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Important Terms

- Matter anything physical that takes up space
- Mass the amount of matter
- Atom basic unit of matter
- Element simplest form of matter
- Combining Power number of atoms an element can bond to
- Compound atoms of 2 or more elements held together by bonds



Chemical Bonds

- lonic bond oppositely charged atoms are joined
- Covalent bond atoms joined by sharing electrons or "valences"
 - A. Single: share 1 pair of electrons
 - B. Double: share 2 pair
 - C. Triple: share 3 pair



Polyatomic Compounds

There are two types of compounds:

- Inorganic (non-living) do not contain the element Carbon
- Organic (living) do contain Carbon

The "C.H.O.N. Compounds"

 Organic compounds that contain Carbon, Hydrogen, Oxygen & Nitrogen

 Living organisms require four types for survival:

1. Carbohydrates

- Provide energy
- Monosaccharides
 (simple sugars) are
 the building blocks
- Disaccharides and Polysaccharides commonly exist



2. Lipids

- Provides energy storage
- 8 categories including <u>fats</u>, <u>waxes</u>, & <u>some</u> <u>vitamins</u> (A,D,E,K)



3. Proteins

- Each unique protein performs specific duties
- Some are enzymes (speed up reactions)
- Smaller <u>amino acids</u> are the building blocks



4. Nucleic Acids

- Stores all genetic information
- Two main types:
 DNA & RNA
- Nucleotides are building blocks



GLOSSARY

Chemical bonds - Химические связи

Enzymes - Энзимы (скорость реакции)

Amino acids - Аминокислоты

Combining power - Объединяющая сила

Compound - Соединение

Glow - Пылать

Synthesizing - Синтез

Reactants - Реагенты

Polyatomic compounds - Многоатомные соединения

THANKYOU

For Your Attention!