

Biochemistry

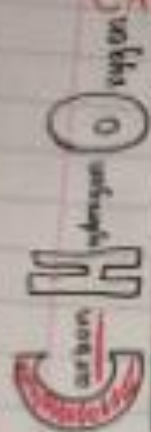
Carbon Bonding

- organic compounds include carbon
- carbon has **4 valence electrons**
 - bonds 4 times
- bonds in different positions
 - shape determines function



Carbohydrates

Carbohydrate - an organic compound made up of **CARBON**, hydrogen, and oxygen



MONOSACCHARIDES

glucose - made by plants in photosynthesis

monosaccharide - a single sugar molecule

DISACCHARIDES

two monosaccharides combined through a dehydration synthesis

POLYSACCHARIDES

linked monosaccharides in a condensation reaction

PROTEINS

protein - polypeptides made of amino acids linked by peptide bonds

• amino acids - monomers that form proteins (20 IN ALL!)

