

# CHEMISTRY OF LIFE

## ORGANIC COMPOUNDS

→ carbon (C), hydrogen (H) & oxygen (O)

### CARBOHYDRATES

- Atoms of carbon, hydrogen & oxygen
- **MAIN FUNCTION** = provides energy to living organisms

#### CLASSES:

##### 1. MONOSACCHARIDES

[ • simple / single sugars (e.g., glucose) = basic units ]

TEST : Benedict solution / Fehling A & B solution [reddish brown]

##### 2. DISACCHARIDES

[ • union of single sugars = double sugars (e.g., sucrose) = TWO SUGARS ]

E.g. : Milk = lactose

Sugar cane = sucrose

#### GLUCOSE :



#### FRUCTOSE :



#### SUCROSE :



##### 3. POLYSACCHARIDES

#### STARCHES:

- Store energy in organisms : 100th glucose molecules connected
- Stored in PLANT CELLS - stored in liver & muscles

TEST : Iodine solution = blue-black

#### CELLULOSE:

- MAIN COMPONENT of plant cell walls [not in animals]
- Similar structure to starch BUT - cannot digest & obtain energy -
- Forms FIBER / coarseness in diet

TEST : Schultz solution = purple

#### GLYCOGEN:



### LIPIDS (FATS)

- Carbon, hydrogen and oxygen [sometimes also phosphorus (P)]
- TEST : organic solvents

# Grade 1life Science Essay For Term 4

**RJ Alexander**



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