

IPC Cycle Sheet

May 4, 2020 thru May 8, 2020

Goals: TLW discover the importance of carbohydrates, lipids, proteins, and nucleic acids.

Monday: **Class @8:30 – 9:45 AM (1st period only)**
Carbohydrates and Lipids

Homework: Do warm up #93

Tuesday: **Class @11:10 – 12:25 AM (6th period only)**
Carbohydrates and Lipids

Homework: Do warm up #93

Wednesday: **No Meeting. Watch videos and do the HW.**

Homework: Do worksheet
“Carbohydrates and Lipids”

Thursday: **Class @8:30 – 9:45 AM (1st period only)**
Amino Acids and Proteins

Homework: Do warm up #94

Friday: **Class @11:10 – 12:25 AM (6th period only)**
Amino Acids and Proteins

Homework: Do warm up #94

Vocabulary

alkane	isomer	hydrocarbon
alkene	polymer	organic compound
alkyne	monomer	functional group
aromatic	protein	carbohydrate
amino acid	nucleic acid	

Know the following

how to recognize a hydrocarbon
how to name hydrocarbons
the difference in saturated and unsaturated
synthetic and natural polymers

Integrated Physics and Chemistry



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Mole

A mole is an Avogadro's number of anything.

Avogadro's Number

Avogadro's number is the number of atoms in exactly 12.00 grams of carbon-12.

$$N = 6.022 \times 10^{23}$$

Molar Mass

Molar mass is the mass of one mole of a substance in grams.

$$H = 1.01 \text{ grams} \quad C = 12.01 \text{ grams}$$

Macromolecules

The large carbon-based molecules that make up the cellular structures.

Organic Chemistry

The study of compounds made of mostly carbon and hydrogen.

Carbohydrates

Carbohydrates are made from carbon hydrogen and oxygen atoms in a ratio of 1:2:1. (sugars)

Carbohydrates are the main source of energy for living things.

Lipids

Lipids are mostly carbon and hydrogen.

Lipids are used to store energy and provide water proofing in cellular membranes and coverings.

Common lipids are fats, oils, waxes and steroids.

Proteins

Proteins consist of carbon, hydrogen, oxygen, **nitrogen** and sulfur.

Proteins are polymers of **amino acids**.

Nucleic Acids

Nucleic acids consist of carbon, hydrogen, oxygen, nitrogen and phosphorus.

Nucleic acids are polymers of nucleotides.

Checkup #92

List 2 monosaccharides.

List 3 types of lipids.

List 2 types of nucleic acids.

What are the building blocks of proteins?

Checkup #93

Write the correct term for the following.

- _____ 1. natural sugars
- _____ 2. means many units
- _____ 3. large macromolecules that do not form polymers
- _____ 4. long polymers of monosaccharides
- _____ 5. one glycerol molecule and three fatty acids
- _____ 6. large molecules that make up living organisms
- _____ 7. means one unit
- _____ 8. animal starch is ...
- _____ 9. a double stranded nucleic acid ...