

CARBOHYDRATES REVIEW

1. List 3 foods that contain mostly carbohydrates.

PASTA, BREAD, SUGAR

MONOMER = SIMPLE SUGAR
GLUCOSE

2. Carbohydrates are chains of what smaller organic molecule?

MONOSACCHARIDE
SIMPLE SUGAR

3. Draw a simple picture of this smaller building block molecule.



4. List 3 ways that living creatures use carbohydrates.

- QUICK ENERGY
- PLANT CELL WALLS
- CHITIN

5. Give 2 examples of carbohydrates in living organisms.

GLUCOSE
GLYCOGEN

6. List the names of 3 sugars.

MONO DI POLY SAKCHARIDE

7. Most sugars end in what 3 letters?

-OSE

8. Another name for a sugar is...

MONOSACCHARIDE

9. What is meant by a monosaccharide?

ONE
SIMPLE SUGAR



10. What is meant by a disaccharide?

2 SUGARS



11. What is meant by a polysaccharide?

MANY SUGARS



12. What is the molecular formula of glucose?

$C_6H_{12}O_6$

13. Which carbohydrate do plants store for later energy use? STARCH

14. Which carbohydrate do animals store for later energy use

GLYCOGEN

15. Which carbohydrate makes up the cell walls of plants?

CELLULOSE

Can we digest this carbohydrate? YES

NO

If not, what function does it serve when we eat it?

- CLEAN OUT DIGESTIVE
- FIBER

16. If you need a quick shot of energy in the next hour what should you eat? Why?

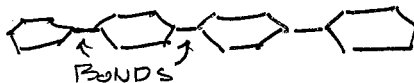
SIMPLE SUGAR

QUICK, EASY TO DIGEST

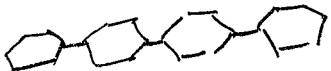
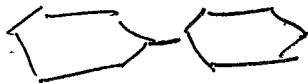
* ONLY SHORT AMT OF ENERGY

17. Why does an athlete eat a lot of pasta the night before a game?

PASTA → STARCH LOTS OF COMPLEX CARBS W/ LOTS OF
ENERGY IN BONDS



1. Draw and Label a Simple Sugar, disaccharide and a polysaccharide



PROTEIN REVIEW

MONOMER = AMINO ACID

1. List 3 foods that contain mostly proteins.

MEAT FISH BEANS

2. List 3 ways that living creatures use proteins.

GROWTH REPAIR, ENZYMES, HAIR, NAILS, MUSCLES

3. Give 3 examples of proteins in living organisms

HAIR

SKIN

NAILS

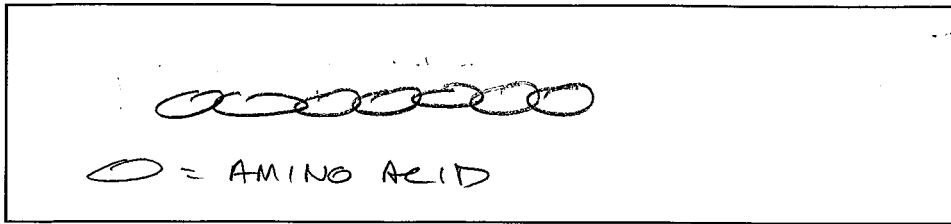
MUSCLES

4. Proteins are chains of what smaller organic molecule

AMINO ACIDS

* 20 DIFF. AMINO ACIDS

5. Draw a simple picture of a protein showing this chain of smaller molecules.



6. How many different amino acids are there? 20

LIPIDS REVIEW

MONOMER = GLYCEROL +
3 FATTY ACIDS

1. List 3 foods that contain mostly lipids.

CHEESE, MEAT, BUTTER

2. Are lipids chains of smaller molecules like carbohydrates

NO, JUST ONE BIG FAT MOLECULE

3. List 3 ways that living creatures use lipids.

- STORED ENERGY
- INSULATION

PROTECTION OF ORGANS

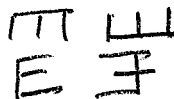
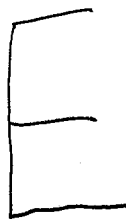
CELL MEMBRANE

HORMONES

3. List 3 examples of lipids in living organisms.

FATS, OILS, WAX

Draw a Lipid



NUCLEIC ACIDS

MONOMER - NUCLEOTIDE

1. What are the functions of a nucleic acids in living organisms?

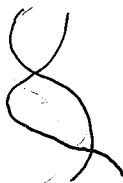
STORE GENETIC INFO

2. Name the two examples of nucleic acids in all organisms.

RNA DNA

3. Describe the shape of the DNA molecule. - DOUBLE HELIX

Draw BOTH RNA and DNA



DNA



RNA