



CONSOLIDATION ACTIVITIES

"NATURAL SCIENCE" (2nd E.S.O.)

UNIT 1: "The Basis of Life"

1. Complete the following chart:

Organic biomolecule	Composition	Functions	Examples
GLUCIDS			
		- Insulation - Storage of energy - Structural	
	Amino acids		
			DNA RNA

2. Look at the diagrams:

a. What kind of nutrition is represented in diagram **A**?

b. Relate every letter of the diagram **A** with its correspondent substance:

- Mineral salts.....
- Oxygen (O₂).....
- Complex organic matter (starch).....
- Carbon dioxide (CO₂).....
- Simple organic matter (glucose).....
- Water (H₂O).....

c. In diagram **A**, Indicate which represent number 1.

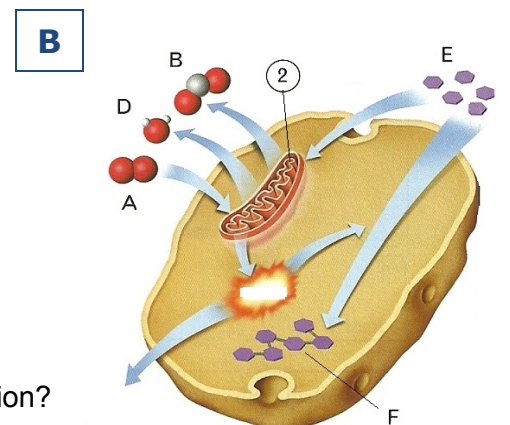
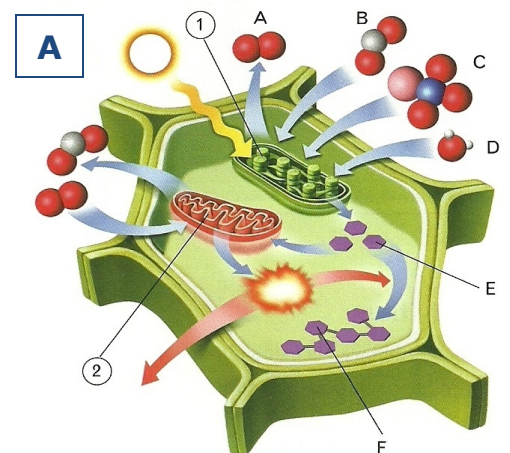
- Which process takes place in it?
- Write its overall chemical reaction.
- Is it a catabolic or an anabolic reaction? Why?

d. In diagram **A**, indicate which represent number 2.

- Which process takes place in it?
- Write its overall chemical reaction.
- Is it a catabolic or an anabolic reaction? Why?

e. In diagram **B**, is represented other kind of cellular nutrition.

- Which is it?
- label the diagram.
- What chemical reaction is common to autotrophic nutrition?
- How do obtain these cells the organic matter they need?



3. Write a “T” if the phrase is *true* and “F” if the phrase is *false*. Correct the last ones:

- a. Prokaryotic cells have separated the genetic material from the rest of the cytoplasm.....
- b. The first biotic level of organization of matter is the molecule.....
- c. Water is the less abundant substances in living beings.....
- d. Wall cell, chloroplasts and a big vacuole are exclusive organelles of animal cells.....
- e. Multicellular organisms grow and repair their tissues through mitosis.....

4. Complete the sentences with the most appropriate word:

- a.are the typical chemical elements of living matter.
- b. Duringthe parent cell divides into two identical daughter cells.
- c. The construction phase of the metabolism is the
- d. A response is the reaction to a
- e. Cell wall and are the exclusive organelles of eukaryotic plant cells.

5. Fill the conceptual map about the topic.

