

CELLULAR RESPIRATION

Define cellular respiration (the definition from 3.7.1!).

Cell respiration is the controlled release of energy from organic compounds in cells to form ATP.

MULTIPLE CHOICE. Circle ALL that are TRUE. There may be MORE THAN one correct answer.

_____ is the first step in cellular respiration that begins releasing energy stored in glucose.

- A. Alcoholic fermentation
- B. Lactic acid fermentation

- C. **Glycolysis**
- D. Electron transport chain

The carrier(s) for hydrogen ions and high energy electrons during GLYCOLYSIS are _____

- A. ATP
- B. **NADH**

- C. FADH₂
- D. NADPH

If oxygen is NOT present, glycolysis is followed by _____

- A. Krebs cycle
- B. electron transport chain

- C. **fermentation**
- D. link reaction

Name the 3 carbon molecule produced when glucose is broken in half during glycolysis.

- A. **pyruvic acid**
- B. lactic acid

- C. Acetyl-CoA
- D. citric acid

Since fermentation does not require oxygen it is said to be _____

- A. aerobic

- B. **anaerobic**

How many ATP molecules are added to get glycolysis started? 2

Since glycolysis produces 4 ATP molecules, this results in a NET GAIN of 2 ATP's

MATCH THE LETTER IN THE DIAGRAM WITH THE LABEL: (You can use them MORE THAN ONCE)



D MATRIX

B INTERMEMBRANE SPACE

E CYTOPLASM

A OUTER MEMBRANE

C INNER MEMBRANE (CRISTAE)

E Place GLYCOLYSIS happens

D Place LINK REACTION happens

C Place ETC is located

D Place KREBS CYCLE happens

C Place of OXIDATIVE PHOSPHORYLATION

Write the complete overall chemical equation for cellular respiration using chemical symbols instead of words:



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