

Review Sheet for Biology Test 4: Photosynthesis & Cellular Respiration

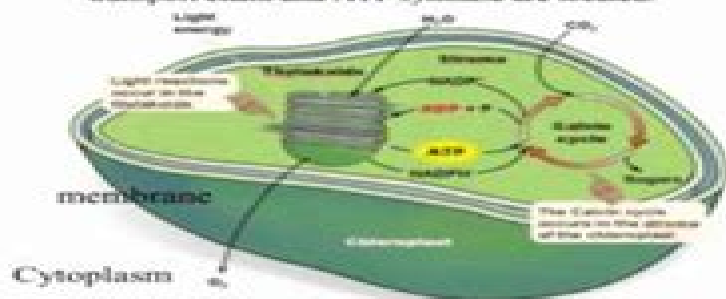
Name: **KEY** Per: **___**

1. What is the purpose of photosynthesis? *To convert energy from light into chemical energy stored and transported in sugar molecules*
2. What is the equation for photosynthesis? $6\text{H}_2\text{O} + 6\text{CO}_2 + \text{energy (from sun)} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
3. What is the purpose of cellular respiration? *To break down glucose through a series of chemical reactions the release energy a little at a time to energy carrier molecules*
4. What is the equation for cellular respiration? $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{H}_2\text{O} + 6\text{CO}_2 + \text{energy (captured by the energy carrier molecule ATP)}$

Fill in the table below. The first one is done for you as an example. For the cellular respiration processes, calculate the number of each molecule based on the breakdown of a single glucose molecule.

	Process	What goes in (reactants)	What comes out (products)
Photosynthesis	Light Dependent Reactions	$\text{H}_2\text{O} \rightarrow$ $\text{ADP} + \text{P} \rightarrow$ $\text{NADP}^+ + \text{H}^+ \rightarrow$	$2\text{H}^+ + \text{O} + 2\text{e}^-$ ATP NADPH
Photosynthesis	Calvin Cycle	$6\text{CO}_2 \rightarrow$ 6 ATP 6 NADPH	Glucose $6\text{ADP} + 6\text{ phosphates}$ $6\text{NADP}^+ + 6\text{H}^+$
Cellular Respiration	Glycolysis	glucose $2\text{ADP} + 2\text{ phosphates}$ $2\text{H}^+ + 2\text{NAD}^+$	2 pyruvate 2 ATP 2 NADH
Cellular Respiration	Oxidation of Pyruvate	2 pyruvate $2\text{H}^+ + 2\text{NAD}^+$	2 acetyl-Co-A (2 carbons) 2 NADH
Cellular Respiration	Krebs Cycle	2 acetyl-Co-A (2 carbons) $6\text{H}^+ + 6\text{NAD}^+$ $2\text{FADH} + 2\text{H}^+$ $2\text{ADP} + 2\text{ phosphates}$	4 CO_2 6 NADH 2 FADH2 2 ATP
Cellular Respiration	Electron Transport Chain	10 NADH 2 FADH2 $2\text{H}^+ + \text{O}$	$10\text{H}^+ + 10\text{NAD}^+$ $2\text{FADH} + 2\text{H}^+$ 2 H2O
Cellular Respiration	Chemiosmosis	$34\text{ADP} + 34\text{ phosphates}$	34 ATP

5. CIRCLE the molecules that are "charged" with energy in the table above. I **highlighted** them
6. Look carefully at the table above. At which step is oxygen required in order to complete the aerobic respiration?
Electron Transport Chain
7. Draw a picture of a chloroplast below and label the following: thylakoid, granum, membrane, stroma, cytoplasm (outside), where the light dependent reactions occur, where the Calvin cycle occurs.
8. Draw a picture of a mitochondrion below and label the following: Inner membrane, outer membrane, intermembrane, matrix, cytoplasm (outside), where glycolysis occurs, where oxidation of pyruvate occurs, where the Krebs cycle occurs, where the electron transport chain and ATP synthase are located.

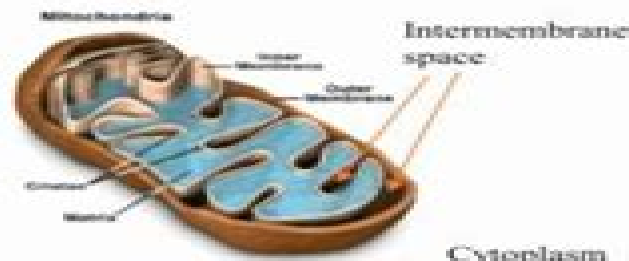


Glycolysis
(in cytoplasm)

Oxidation of pyruvate
(in intermembrane space)

Krebs cycle (in Matrix)

ETC & ATP Synthase
(embedded in inner
membrane)



Cellular Respiration Breaking Down Energy Worksheet

Answer Key

D Kirk



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