Name:_____Date:_____Period:_____

Cellular Respiration Worksheet

1.___C__ Where glycolysis occurs in the cell.

2.__I___ Type of respiration the requires oxygen.

3.__K___Breakdown of carbohydrates without oxygen.

4.___A__ATP after it releases a phosphate.

5._B____Electron acceptors

6._D____2 ATP, 2 Pyruvic acid +H_20, **2**NADH+2H^+

7._G____Pyruvic acid after it reacts with coenzyme A.

8._H____Cycle that breaks down acetyl CoA

9.___N__6-NADH, 2-FADH, two ATP, H+

10.__O__ Protons move down the concentration gradient to make ATP

11.__L__Enzyme used in the electron transport chain to produce ATP.

12.__M__Number of ATP that can be made during aerobic respiration.

13.__F__Creates a burning sensation in your muscles.

14.__E__Used by yeast and bacteria.

A. ADP
B. NADH,FADH
C. Cytosol
D. Glycolysis result (net)
E. Ethyl Alcohol Fermentation
F. Lactic Acid
G. Acetyl CoA
H. Krebs
I. Aerobic
J. 22
K. Fermentation
L. ATP Synthase
M. 38
N. Krebs Cycle result (net)
O. Chemiosmosis
P. Cristae

Complete the table.

3 Processes of Cellular Respiration:	**# ATP produced:**
GLYCOLYSIS	2
KREBS CYCLE	2
ELECTRON TRANSPORT CHAIN	28-34

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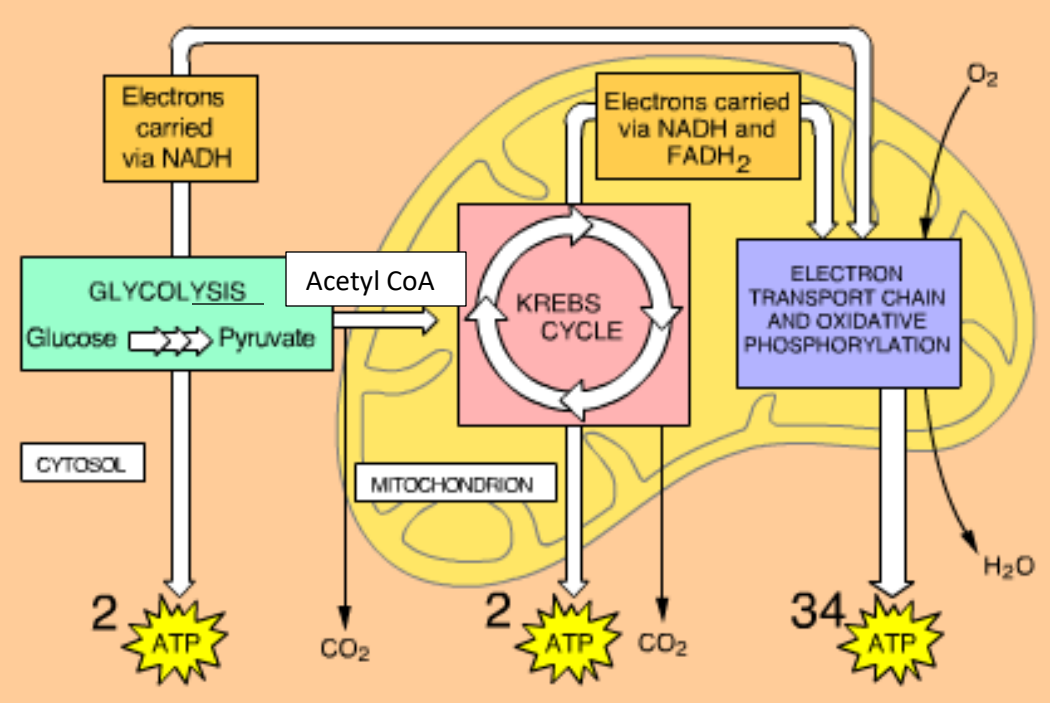
Label the diagram using the word bank below. All terms/phrases are used.



Word Bank: Glucose, Pyruvate, 2 ATP, 34 ATP, 2ATP, Electron Transport Chain,

NADH and FADH2 carries Electrons, Electrons carried via NADH, Krebs Cycle, Glycolysis, Acetyl CoA

Draw in the diagram where CO2 is released.

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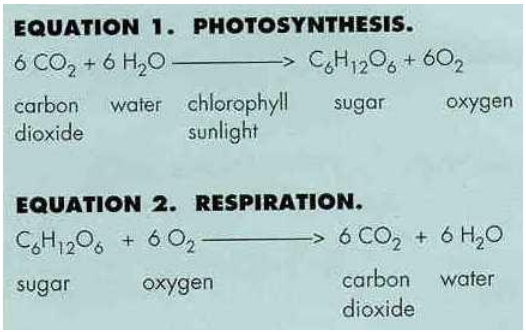
Write the chemical equation for cellular respiration.

Write the chemical equation for photosythesis.



Explain how photosynthesis and cellular respiration are related.

The product of one are the reactant of the other.

Critical Thinking:

The inner membrane of the of the mitochondria has folds called the cristae. How would the function of the mitochondria be different if the inner membrane were not folded?

Inner membrane increases surface area and also the rate of productivity since there is more membrane surface area for the reactions to occur on.

Create a concept map using the following terms: fermentation, ethyl alcohol fermentation, lactic acid fermentation, anaerobic pathway, glycolysis, pyruvic acid.