

CELLULAR RESPIRATION WORKSHEET

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General Equation for Cellular Respiration:

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With respect to one molecule of glucose entering the cellular respiration pathway, How many of each molecule enters/exits each of the following stages of the pathway?

(1) GLYCOLYSIS:

Where specifically in the Eukaryotic cell does this pathway occur?

Enters Pathway:

 1 Glucose
 ATP

Produced by Pathway:

 Pyruvate
 NADH
 ATP

Net amount of ATP produced (number produced minus number entered)?

(BETWEEN GLYCOLYSIS AND KREBS CYCLE)

Enters Pathway:

 Pyruvate

Produced by Pathway:

 Acetyl Co A
 NADH
 CO₂

(2) KREBS CYCLE

Where specifically in the Eukaryotic cell does this pathway occur? _____

Enters Pathway:

 Acetyl Co A

Produced by Pathway:

 NADH
 FADH₂
 CO₂
 ATP

(3) ELECTRON TRANSPORT CHAIN (ETC)

Where specifically in the Eukaryotic cell does this pathway occur? _____

Enters Pathway:

 3* O₂
 NADH (Total from above)
 FADH₂ (Total from above)

Produced by Pathway:

 6 H₂O
 ATP