

Respiration Review

Order the paper strips below to answer the following questions:

Step 1:

- Name?
- Where does it take place?
- List 3 steps in order:
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Step 2:

- Name?
- Where does it take place?
- List 1 thing that enters reactions:
- List 4 things produced by the reactions:

Step 3:

- Name?
- Where does it take place?
- List 6 steps:
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Glycolysis

Cytoplasm

glucose split into 2 pyruvate

2 ATP spent, but 4 ATP gained

Pyruvate converted to Acetyl CoA

Citric Acid Cycle

Matrix

Acetyl CoA

Carbon dioxide, NADH, FADH, ATP

Electron Transport Chain

Cristae

NADH and FADH supply electrons

Electrons are passed along and as they move H^+ are pumped out of the matrix

A concentration gradient is formed by the H^+ so they diffuse through the ATP synthase

the electrons (e^-) join up with H^+ , and O_2 to form water

ADP is phosphorylated into ATP

32 ATP are formed