

CHAPTER 7 ACTIVE READING WORKSHEETS**CELLULAR RESPIRATION****Section 7-2: Aerobic Respiration**

Read the passage below, which covers topics from your textbook.
Answer the questions that follow.

The Krebs cycle has five main steps. In eukaryotic cells, all five steps occur in the mitochondrial matrix.

Step 1. A two-carbon molecule of acetyl CoA combines with a four-carbon compound, **oxaloacetic acid**, to produce a six-carbon compound, **citric acid**.

Step 2. Citric acid releases a CO_2 molecule and a hydrogen atom to form a five-carbon compound. The electron in the hydrogen atom is transferred to NAD^+ , reducing it to NADH.

Step 3. The five-carbon compound formed in Step 2 also releases a CO_2 molecule and a hydrogen atom, forming a four-carbon compound. Again, NAD^+ is reduced to NADH. In this step, a molecule of ATP is also synthesized from ADP.

Step 4. The four-carbon compound formed in Step 3 releases a hydrogen atom to form another four-carbon compound. This time, the hydrogen atom is used to reduce FAD to FADH_2 . FAD, or flavin adenine dinucleotide, is a molecule very similar to NAD^+ . Like NAD^+ , FAD accepts electrons during redox reactions.

Step 5. The four-carbon compound formed in Step 4 releases a hydrogen atom to regenerate oxaloacetic acid, which keeps the Krebs cycle operating. The electron in the hydrogen atom reduces NAD^+ to NADH.

Recall that in glycolysis one glucose molecule produces two pyruvic acid molecules, which can then form two molecules of acetyl CoA. Thus, one glucose molecule is completely broken down in two turns of the Krebs cycle. These two turns produce six NADH, two FADH_2 , two ATP, and four CO_2 molecules.

Write your answers in the spaces provided.

SKILL: Sequencing Information

1. Sequence the events to show the order in which they occur during the Krebs cycle. Write "1" on the line in front of the event that occurs first. Write "2" on the line in front of the event that occurs next, and so on.

continued on the next page . . .

Section 7 2 Aerobic Respiration Answer Key

Zhe Xu



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