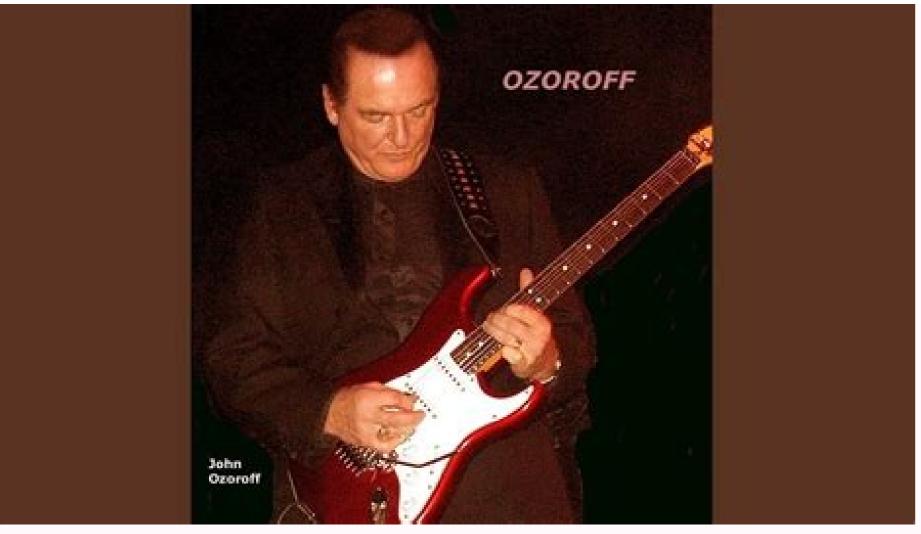
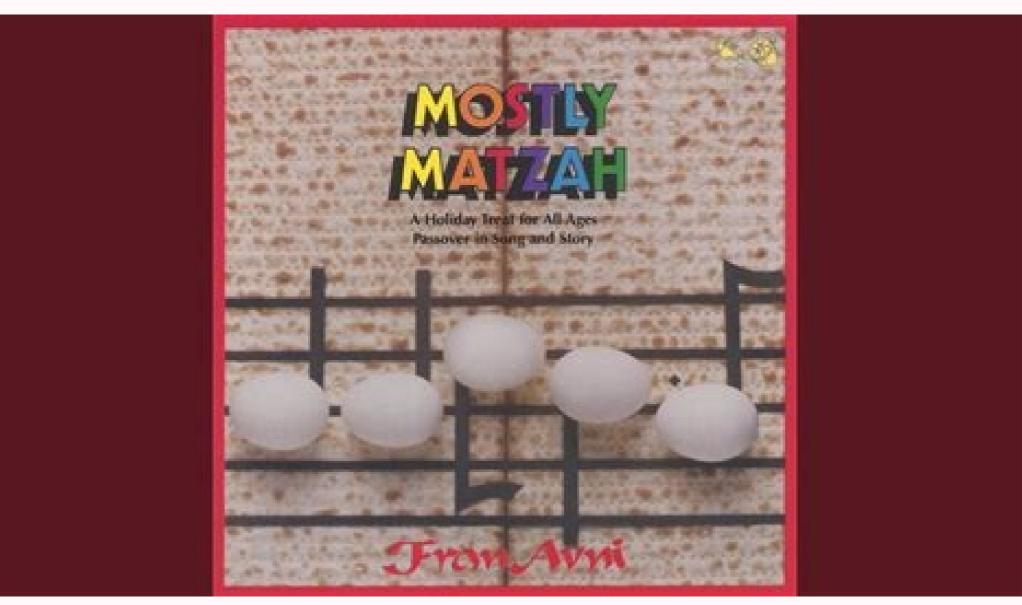
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The Water Cycle - USGS Water Science School[an error occurred while processing this directive] The water cycle describes how Earth's water is not only always changing forms, between liquid (rain), solid (ice), and gas (vapor), but also moving on, above, and in the Earth. This process is always happening everywhere. Back to the water cycle diagram for students. The Krebs cycle, also known as the citric acid cycle or TCA cycle is a series of reactions that later lead to the formation of water. This cycle is termed the citric acid cycle as the first metabolic intermediate formed in the cycle is citric acid. This cycle is also termed tricarboxylic acid (TCA) because it was then not certain whether citric acid or some other tricarboxylic acid (g., isocitric acid and thus the use of this name has since been discouraged. This cycle only occurs under aerobic conditions as energy-rich molecules like NAD+ and FAD can only be retrieved from their reduced form once they transfer electrons to molecules; proteins, fatty acids, carbohydrates. Molecules from other cycles and pathways enter this cycle through Acetyl CoA. The citric acid cycle is a cyclic sequence of reactions formed of 8 enzyme-mediated reactions. This cycle is also particularly important as it provides electrons formed of 8 enzyme-mediated reactions. This cycle is also particularly important as it provides electrons. This cycle is also particularly important as it provides electrons. CoA which then enters the citric acid cycle. Image Source: Rice University (OpenStax). Krebs cycle Location The citric acid cycle in eukaryotes, it takes place in the cytoplasm. The pyruvate formed in the cytoplasm (from glycolysis) is brought into the mitochondria where further reactions take place. The different enzymes involved in the citric acid cycle are located either in the inner membrane or in the matrix space of the mitochondria. Krebs cycle Equation / Reaction / React equation is written as: Acetyl CoA + Nicotinamide adenine dinucleotide + Adenosine dinucleotide + Hydrogen ions Krebs cycle Enzymes In eukaryotic cells, the enzymes that catalyze the reactions of the citric acid cycle are present in the matrix of the mitochondria except for succinate dehydrogenase and aconitase, which are present in the inner mitochondrial membrane. One common characteristic in all the enzymes that catalyze different steps throughout the process of the citric acid cycle: Citrate synthaseAconitaseIsocitrate dehydrogenase FumaraseMalate fumarase organisms, the pyruvate molecules are carboxylated to form acetyl CoA and CO2. Oxidative Decarboxylation of pyruvate forms a link between glycolysis and the citric acid cycle. In this process, the pyruvate derived from glycolysis is oxidatively decarboxylated to acetyl CoA and CO2 catalyzed by the pyruvate dehydrogenase complex in the mitochondrial matrix in eukaryotes and in the cytoplasm of the prokaryotes. From one molecules of pyruvate are formed, each of which forms one acetyl CoA along with one NADH by the end of the pyruvate oxidation. The acetyl CoA formed from pyruvate oxidation, fatty acid metabolism, and amino acid pathway then enter the citric acid cycle. The following are the eight enzyme-catalyzed reactions/ steps in the aerobic oxidation of glucose through the citric acid cycle. Step 1: Condensation of acetyl CoA with oxaloacetate Image Source: Lehninger Principles of Biochemistry. The first step of the citric acid cycle is the joining of the four-carbon compound acetyl CoA. The oxaloacetate reacts with the acetyl group of the acetyl group of the enzyme citrate synthase that condenses the methyl group of acetyl CoA and the carbonyl group of oxaloacetate resulting in citryl-CoA which is later cleaved to free coenzyme A and to form citrate into isocitrate into isocitrate through the formation of intermediate cis-aconitase. This reaction is a reversible reaction catalyzed by the enzyme (aconitase). This reaction takes place by a two-step process where the first step involving rehydration of cis-aconitase into isocitrate. Step 3: Oxidative decarboxylations of isocitrate Image Source: Lehninger Principles of Biochemistry. The third step of the citric acid cycle is the first of the four oxidation-reduction reactions in this cycle. Isocitrate dehydrogenase. This reaction, like the second reaction, is a two-step reaction. In the first step, isocitrate is dehydrogenated to oxalosuccinate while the second step involves the decarboxylation of oxalosuccinate to α-ketoglutarate. Both the reactions are irreversible and catalyzed by the same enzyme. The first step, however, results in the formation of NADH while the second step involves the release of CO2. Step 4: Oxidative decarboxylation of α-ketoglutarate Image Source; Lehninger Principles of Biochemistry. This step is another one of the oxidatively decarboxylated to form a four-carbon compound, succinvl-CoA, and CO2. The reaction irreversible and catalyzed by the enzyme complex α-ketoglutarate dehydrogenase found in the mitochondrial space. This reaction is similar to the oxidative decarboxylation of pyruvate involving the reduction of NAD+ into NADH. Step 5: Conversion of succinyl-CoA into succinate Image Source: Lehninger Principles of Biochemistry. In the next step, succinyl-CoA undergoes an energyconserving reaction in which succinyl-CoA is cleaved to form succinate. This reaction is accompanied by phosphorylation of guanosine diphosphate (GDP) to guanosine triphosphate (GDP) to guanosine triphosphate (GDP). The GTP thus formed then readily transfers its terminal phosphate group to ADP forming an ATP molecule. The reaction is catalyzed by the enzyme, succinyl-CoA is cleaved to form succinate. synthase. Step 6: Dehydration of succinate to fumarate Image Source: Lehninger Principles of Biochemistry. Here, the succinate dehydrogenated to fumarate catalyzed by the enzyme complex succinate dehydrogenated to fumarate Image Source: Lehninger Principles of Biochemistry. Here, the succinate dehydrogenated to fumarate Image Source: Lehninger Principles of Biochemistry. which NAD+ doesn't participate. Instead, another high-energy electron carrier, flavin adenine dinucleotide (FAD) acts as the hydrogen acceptor resulting in the formation of FADH2. The FADH2 then enters the electron transport chain via the complex II transferring the electrons to ubiquinone, finally forming 2ATPs. Step 7: Hydration of fumarate to malate Image Source: Lehninger Principles of Biochemistry. The fumarate in volves hydration, whereas the formation of L-malate involves hydration, whereas the formation of L-malate involves dehydration. Step 8: Dehydrogenation of L-malate to oxaloacetate Image Source: Lehninger Principles of Biochemistry. The last step of the citric acid cycle is also an oxidation-reduction where L-malate and reduction of NAD+ into NADH.Oxaloacetate thus formed, allows the repetition of the cycle and NADH formed participates in the oxidative phosphorylation. This reaction completes the cycle. Krebs cycle Products of one turn of the citric acid cycle, Image Source: Lehninger Principles of Biochemistry, At each turn of the cycle, 3 NADH, 1 FADH2.1 GTP (or ATP).2 CO2 Note: One NADH are formed from a molecule of pyruvate in the oxidative decarboxylation of pyruvate in the oxidative de purpose of the Kreb's cycle is the complete oxidation of glucose, resulting in energy-rich molecules that later produce ATPs in the electron transport chain. Where does the Krebs cycle take place? Krebs cycle take place? Krebs cycle take place? The mitochondria of eukaryote and in the cytoplasm of the prokaryotes. How many ATP are produced in the citric acid cycle? One ATP is formed in a single citric acid cycle while two ATPs are formed from a single molecule of glucose (two molecules of pyruvate are formed from one molecule of glucose). Does the citric acid cycle require oxygen? Yes, the citric acid requires oxygen as the cycle operates only under aerobic conditions as NAD+ and FAD can be regenerated from their reduced form in the mitochondria only by electron transfer to molecular oxygen. Where do the reactions of the citric acid cycle occur in prokaryotic cells? The reactions of the citric acid cycle occur in prokaryotic cells? The reactions of the citric acid cycle occur in the cytoplasm in prokaryotic cells? The reactions of the citric acid cycle occur in the cytoplasm in prokaryotic cells? The reactions of the citric acid cycle occur in the cytoplasm in prokaryotic cells? The reactions of the citric acid cycle occur in the cytoplasm in prokaryotic cells? occur in the mitochondria in eukaryotic cells. What inhibits the citric acid cycle? Various factors like the absence of oxygen, low levels of ATP and NADH, and the accumulation of ketone bodies. Krebs cycle song References Jain JL, Jain S, and Jain N (2005). Fundamentals of Biochemistry. S. Chand and Company. Nelson DL and Cox MM. Lehninger Principles of Biochemistry. Fourth Edition. W. H Freeman and Company. Seventh Edition. W. H Freeman; 2002. Section 17.2, Entry to the Citric Acid Cycle and Metabolism 

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