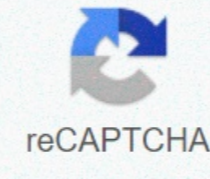




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## Comparing photosynthesis and cellular respiration worksheet pdf

Thank you for using our services. We are a non-profit group that runs this service to share documents. We need your help to maintain and improve this site. To keep our site running, we need your help to cover the cost of our server (about \$500/m), a small donation will help us a lot. Please help us share our service with your friends. In this class, students compare basic energy transfer in photosynthesis and cellular respiration, focusing on the role of ATP. Students will: compare energy transfer during photosynthesis and cellular respiration. describe the roles of chloroplasts and mitochondria in energy transfer. describe the role of ATP in photosynthesis and cellular respiration. Adenosine triphosphate (ATP): Chemical compound that living beings use to store and release energy. Aerobic: a process that requires oxygen. Anaerobic: A process that does not require oxygen. Cellular Respiration: A process that releases energy in cells by breaking down glucose and other food molecules in the presence of oxygen. Aerobic or oxidative breathing requires oxygen; Anaerobic breathing does not require oxygen. Chlorophyll: Green pigment inside chloroplasts that captures light energy. Chloroplast: Organelle in plant cells, and some algae and some microorganisms that capture solar energy and convert it into chemical energy. Glycolysis: A series of chemical reactions that occurs in the cytoplasm of the cell by which glucose is converted into pyruvate without oxygen. Piles of thylakoids inside chloroplasts. Dinucleotide phosphate of nicotinamide dinucleotide (NADP+): Carrier molecule found in plants that transfers high-energy electrons. Photosynthesis: The process of plants, some algae and some microorganisms that use light energy to convert water and carbon dioxide into oxygen and high-energy carbohydrates such as sugars, starches, proteins and lipids. Pyruvate: Compound glucose is divided during the glycolysis process. Stomata: Openings at the bottom of the leaves that allow carbon dioxide and oxygen to enter and leave the leaves. The chloroplast area outside the thylakoid membranes. Thylakoid: Membrane-bound structure within chloroplasts where photosynthesis occurs. 120-160 minutes/3-4 class periods The prerequisite skills were not included in the lesson plan. The possible inclusion of commercial websites below is not an implicit endorsement of their products, which are not free, and are not necessary for this lesson plan. house plant, such as Coleus fish or Aquarium Elodea or image of a fish aluminum foil tape microscope with projector (optional) of leaf cells prepared with visible chloroplasts (optional) Internal structure of a chloroplast (Structure S-B-7-2\_Internal.doc); use with a document or make an aerial transparency Photosynthesis Reactions (S-B-7-2\_Reactions of use a document camera or make a photosynthesis of aerial transparency (The Reactions of Light and Calvin) (S-B-7-2\_Light and Calvin Reactions and KEY.doc) optional demonstration the branch of the Plant Elodea (can be obtained in aquarium stores) the beaker or large transparent plastic cup the sodium bicarbonate solution the large test tube the glasses the containers with lids (test tubes or sealed plastic bags will work) the blue bromthymol solution , 4% the lake or aquarium water the Elodea or other aquarium plant (can be ordered through a biological supply company or obtained at a local aquarium store) the small aquatic snails, guppies or daphnia (can be ordered through a biological supply company or obtained at a local aquarium store) Note: Video playback may not work on all devices. Instructional videos were not assigned to the lesson plan. Plan.

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