Comparing photosynthesis and respiration worksheet





Comparing photosynthesis and cellular respiration worksheet. Comparing and contrasting photosynthesis and cellular respiration worksheet.

Cells fall into one of two major categories: prokaryotic and eukaryotic. The predominantly monocellous organisms of the Bacteria and Archaea domains are classified as prokaryotes (proâ=first; âkaryonâ=nucleus). Animal cells, fungi and protists are eukaryotes (euâ = true). All cells share four common components: 1) a plasma membrane, an outer covering that separates the inside of the cell from its surrounding environment; 2) the cytoplasm, consisting of a gel-like region within the cell; and 4) ribosomes, particles that synthesize proteins. The components of Prokaryotic Cells Prokaryotes differ from eukaryotic cells in several important ways. A prokaryotic cell is a simple, mono-celled (unicellular) organism that lacks a nucleus, or any other membrane organelle. Soon we will come to see that this is significantly different in eukaryotes. Prokaryotic DNA is found in the central part of the cell: a dark region called the nucleoid (Figure 1). Figure 1 This figure shows the generalized structure of a prokaryotic cell. Unlike Archaea and eukaryotes, bacteria have a cell wall made of peptidoglycan, made up of sugars and amino acids, and many have a polysaccharide (carbohydrate) capsule (Figure 1). The cell wall acts as an additional protective layer, helps the cell to keep its shape, and prevents it from Dehydration. The capsule allows the cell to attach to surfaces in its environment. Some prokaryotes have flagella, pili, or fimbriae. Flagella are used for locomotion, while most piles are used to exchange genetic material during a type of reproduction called conjugation. function is evident at all levels, including the cell level, and this will become clear as we explore eukaryotic cells. The principle "form follows function" is found in many contexts. For example, birds and fish have rational bodies that allow them to move quickly through the medium in which they live, be it air or water. It means that, in general, you can deduce the function of a structure by looking at its shape, because the two are matched. A eukaryotic cell is a cell that has a membrane nucleus and other membrane nucleus and other membrane compartments or sacks, called organelles. The word eukaryotic means "true kernel" or "true nucleus", alluding to the presence of the membrane nucleus in these cells. The word "organelles" means "small organ", and, as already mentioned, organelles have specialized cellular functions, just as organs in your body have functions. Figure 2 A generalized eukaryotic cell showing some of the organelles. (Photo: Mediran, Wikimedia. 14 Aug 2002) Both animals and plant cells have centroises, centrosomes (discussed below the cytoskeleton) and lysosomes, while plant cells have a cell wall, chloroplasts, plasmodemates and plastids used for storage, and a large central vacuole, while animal cells do not have. Cell Size At 0.1 Å"5.0 Å"4m in diameters ranging from 10 Å"100 Å"4m (Figure 3). The small size of prokaryotic cells, which have diameters ranging from 10 Å"100 Å"4m in diameters ranging from 10 Å"100 rapidly to other parts of the cell. Similarly, any waste produced inside a prokaryotic cell can quickly move out. However, the larger eukaryotic cells have evolved different structural adaptations. In general, the size of the cells is limited because the volume increases much faster than the surface of the cells. As a cell gets bigger, it becomes increasingly difficult for the cell to acquire sufficient materials to support internal processes, as the relative sizes of different cell types and cell components. A grown man is shown for comparison. Small sizes, in general, are needed for all cells, both prokaryotes and eukaryotes. Let's examine why. First, we will consider the area and volume of a typical cell. Not all cells are spherical in shape, but most tend to approximate a sphere. Remember that the formula for the surface area of a sphere is 4^r2, while the formula for its volume is 4^r3/3. Thus, as the radius of a cell increases as the square of its radius, but its volume increases as the square of its radius (much faster). Therefore, as the square of its radius (much faster). the shape of a cube (Figure 4). If the cell becomes too large, the plasma membrane will not have enough surface area to support the rate of diffusion required for the volume increase. In other words, when a cell grows, it becomes less efficient. One way to become more efficient is to divide; another way is to develop organelles that perform specific tasks. These adaptations lead to the development of more sophisticated cells called eukaryotic cells. Figure 4 Volume increases faster than the surface. The area of the largest cell is 1mm x 1mm x 6 sides = 6mm2. The volume of the small cell is 1mm x 1 2mm x 6 sides = 24mm2. The volume of the large cell is 2mm x 2mm = 8mm3. This gives an area/volume ratio of 3:1 (24:8 reduces to 3:1). References A unless notice, images on this page are licensed under cc-by 4.0 of openstax. text adapted by: openstax. text adapted by: openstax. text adapted by: openstax area/volume ratio of 3:1 (24:8 reduces to 3:1). fish for rings on scale observation of the fish, take data on the respiratory rates of dissection of the natural rat "classification of the rats, skin regionsRequired report Evolution Lab - Simulator Models Mutation rates and strengths Evolution Crossword Puzzle - Terms relating to the topic of evolution by examining the fossil record - organize paper fossils to show change during explorations of Time through time - Explore the Berkeley website, the questions understanding homology and analogy - Even the Berkeley website Answer the questions understanding homology and analogy - Even the Berkeley website Answer the questions understanding homology and analogy - Even the Berkeley website Answer the questions understanding homology and analogy - Even the Berkeley website Answer the questions understanding homology and analogy - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions understanding homology - Even the Berkeley website Answer the questions and the PBS series evolution questions - watch video clips, answer the questions become human - Video clips and website information; Questions Taxonomy INTERPRETING GRAPHICS - Use a map to show groups of animals and how they are related to Dichotomous Keys (NORNS) - practice using keys, imaginary creatures D'Hotomous Keys (Aliens) more practice using key keys classification - watch fingerprints and develop a way To classify Taxonomy Project - Students create their own kingdoms, the Kaibab lesson - another grapefruit of deer random sampling - estimates a population of "Sunflowers" interpreting ecological data - graphics and data tables ecological succession- graphic shows as a Laghetto changes, with population questions Biology (Virtual Lab) - Growth of the Paramecium Demography Lab - collect cemetery data, build the Predator Prey Simulation survival curve - Collect Food Web Label II data - Another image to identify manufacturers, consumers .. etc Biomes Concept Map - Research Biomi, Create Graphic Organizer B Iomes WebQuest - Search Biomi, Create a Mobot-Web Biomes Travel Presentation and Brochure, Search Site, Fill Table and Reply Questions Biome Map - Color N. America's Biomes Isopod Behavior Lab - AP Lab 11, Modified Environmental Issues Recycle City - Web, view the EPA website on recycling with questions The Poem Elephant Contemplates the nature of the Martian observations and the car - Identify what makes something "alive" security lab - illustration, identify good and bad procedures the of Science â € "Prefissi and suffixes sponge animals â €" Fast workshop using capsules and water (toys) to collect data on how fast water animals grow in living beings â € "investigate how much water is stored in the grass cutouts Microscope «and» Lab labeling â € "Image, no lab lab lab (advanced) Â € "For AP Biology Microscope Coloring - Very simple worksheet on the parts Observation â € " Opening workshop, using the senses Pendulum project â € "Based inquiry, experimental design and data analysis (physical science) Penny Lab â €" Lead An experiment on the surface tension Production of carbon dioxide â € "Determine how the activity changes the amount of CO2 expelled MAKING SLIME â €" Instructions for creating a polymer measuring the capacity A pulmonary â "graphics and data collection measure a bean-based bean where students work with volume and mass, as well as common laboratory equipment Debunking The Paranormal â \in " investigate a claim from a scientific point of view, capacity of Critical Thought Lab Report Template & Rubric Flower Coloring â \in "Coloring parts of a flower; stands men, pistil, ovary, leaf coloring petals â € "color structures; xilema, floema, beam sheath, epidermis..etc monocot and dicot comparison â € "coloring with terms and questions waterweed simulator â € "coloring with terms and questions waterweed simulator â € "color structures; xilema, floema, beam sheath, epidermis..etc monocot and dicot comparison â € "coloring with terms and questions waterweed simulator â € "co terms identification tree â € "Terminology leaf (alternative vs simple), and a key to identify the trees of the Midwest Tree Rings â € "Laboratory studies the effects of gibberellic acid on photosynthesis simulation growth â & "measure ATP production rates by changing the brightness and CO2 levels in the investigation of the leaf stoma & "measure i water" loss rates in plants held in different conditions germination inhibitors â \in "measure germination rates in tomatoes seed germination experiments â \notin " Students investigate which factors influence germination cheek cell Labination \tilde{a} , - \tilde{a} , \tilde{A} , observe pillow cells under the cheek cell virtual lab \tilde{A} microscope, if you have lost it in Animal Cell Coloring Class, ⠀ "Coloring A Typical Animal Cell Plant Cell Coloring, - Observing Onion Microscope and Elodea Plant Cell Lab Makeupà , -Ã, observation to the microscope to view plant Cell Virtual Lab Â"use a virtual microscope to view plant Cell Lab Makeupà , -Ã, observation to the microscope to view plant Cell Lab Makeupà , -Ã, observation to the microscope to view plant Cell Coloring A Typical Animal Cell Virtual Lab Â"use a virtual microscope to view plant cells. Comparison of plant and animal cells"look at the cheek cells and onion Prokaryote Coloring" â color a typical bacterial cell City Analogy â compares a cell to a city Cells Alive (Internet) A - use of laboratory analysis laboratory data paramecium, vacuole, mouth pore, macronucleus, cilia. euglena coloring - color heuglena; flagella, chloroplast, film. kingdom protista concept map - organizes the types of protistas with the characteristic ameba & paramecium lip - displays both specimens, compares 3 types of algae: volvox, spirogyra, euglena biodiversity of ponds - water sample tin, identify the organisms (protista, artropodi..ect) protista crossword - vocabulary; vacuole, paramecium, algae, malaria..etc phylum porifera & phylum coidaria sponge anatomy, coloring the hydra anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures - another page of anatomy structures - moisturizing image; students label tentacles, cnidocytes, shoots. . hydra lab - another page of anatomy structures anatomy and behavior of the hydra . phylum platyhelminthes & nematoda observation A Planna Mive Planian and observe the regeneration Phylum Dissection of the Squid sirvet and observations. Chart of Makeup Lab Mollusk - Compare Cefalopods, Gastroods and Bivalves Phylum Annelida Observation of an Earthworm Associate - Students complete A chart that outlines the characteristics of Artropod subphyla arthroprod coloring - color and labels parts, compare types Phylum Chorddata amniote egg coloring - learn egg structures; Yolk, Alantois, Amnion, Chorion Comparison of a human and avian skeleton - coloring and bones identification Bird Beaks and Feet -Look at photos of birds, make inferences on their diet and habitat animal diversity Web - Explore website, information on classes, Virtual Orders and Relationships Field Travel at San Diego Zoo - Explore the site, Question Zoo-Logical - A logical puzzle on dinosaurs, mainly for the fun fish temperature laboratory - investigate how the breathing rate of a fish changes With temperament; Chart Fish Temperature Makeup Laboratory - As above, online version for students observe a fish in a chart of beaker mammals - Fill out a chart on orders mammals; Write descriptions and relatives animal behavior territorial behavior territorial behavior in crickets - marks and observes the crickets as they interact with the other practical of simple genetics - using monsters and Popsicle sticks to show how alleles are hereditary currency to compare the actual results compared to the results provided by a Punnett Square Hereditity Word - Fill the empty space, finds the terms genetic crosses with two traits - Basic Mendel Cross Dihybrid Cresces in Guinea Pings (PDF) - Switch through how to perform a 4x4 square codominance Punnett and incomplete Dominance-Basic Croci-Basic Rindspa Oompa Loompa Genetics - Crosses and set of basic problems, using Oompas LOOMPAS Human Genetics - Crosses and set of basic problems, using Oompas LOOMPAS Human Genetics - Crosses and set of basic problems, using Oompas LOOMPAS Human Genetics - Crosses and set of basic problems, using Oompas LOOMPAS Human Genetics - Crosses and set of basic problems, using Oompas LOOMPAS Human Genetics Linkage connection group - use tube cleaners beads, students build chromosomes with alleles and perform crosses, preaching results (advanced) design-A-species - using the rules of inheritance of codominancy and color of eyes - uses a simulation to show how multiple alleles can affect a single trait (color of eyes) Hardinistic Statesusing the HW Corn Genetics - grow corn, albino ratio 3:1, laboratory report analyzes F1, F2 crosses Fruit Fly Genetics - virtual laboratory where to cross different flies, collect data and statistically analyze the results Fruit Fly (Drosophila) Virtual Lab - wider lab through a program created by Virtual Courseware, requires Meiosis, identifying and ordering Meiosis, identifying and ordering Meiosis animations and answering DNA Coloring questions - basic image of DNA and RNA DNA Crossword - basic terms Transcription & Translation Coloring - shows the structures involved, nucleotides, basic torque rules, amino acids DNA sequence, transcribe and translate DNA Sequencing into Battery - website simulates sequence of bacterial DNA, PCR techniques Who ate Cheese - simulate electrophoresis gels to solve a crime Genetic Science Ethics- investigation questions as a group of ethical issues involved genetics (clonation, gene therapy..) HIV coloration - advanced viral infection & DNA

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