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membrane highly folded increases surface area to volume ratio so more oxidative phosphorylation occurs matrix has appropriate enzymes and suitable pH for the krebs cycle to occur outer membrane cells use the energy stored in chemical bonds of foods to produce compounds that directly power the cell's activities such as ATP the equation that summarizes cellular respiration using chemical formulas is $6\text{CO}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$ energy respiration worksheets questions and revision for GCSE combined science and biology all the revision you need in one place a photosynthesis and cellular respiration worksheet where students model the reactants products of both photosynthesis and cellular respiration NGSS life science offers many great lessons click the free lesson plan PDF link below or become a member to get access to the answer key and editable file these worksheets provide a comprehensive and engaging way for students to learn about the process of cellular respiration its importance in living organisms and the various stages involved in this vital biological process cell respiration is the controlled release of energy from organic compounds to produce ATP ATP is composed of a sugar and base adenosine connected to three phosphate groups when a phosphate is cleaved to form ADP + P_i the energy stored in the bond is released 3 write the equation for cellular respiration 4 draw a mitochondrion and label all structures indicate where the krebs cycle and the electron transport chain occur 5 discuss the role of the following in cellular respiration cytoplasm the cytoplasm is where glycolysis takes place

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the respiratory system 1 your body needs oxygen in order to get food you eat from the respiration and the respiratory system match the correct description with the correct term write the letter in the space provided 2 process of using oxygen and releasing carbon dioxide and water 3 inhalation and exhalation 9 10 respiration worksheet answers page id ruth lawson otago polytechnic dunedin new zealand 1 add labels to the diagram of the respiratory system of a dog below 2 list the structures below in the order in which air passes them as it travels from the nose to the lungs 3 8ca what is released during respiration energy b food air d glucose respiration is aerobic if it requires carbon dioxide b energy oxygen d lungs which of these is a correct word equation for respiration glucose oxygen carbon dioxide water carbon dioxygen glucose oxygen glucose energy oxygen carbon carbon dioxide glucose internal respiration is controlled by which allow energy to be released in enzymes carbon dioxide the energy trapped in molecules are called atp aerobic respiration the release of energy from food in the presence of oxygen anaerobic respiration the release of energy from food without requiring the presence of oxygen in this cycle the majority of atp produced in respiration comes from the electron transport chain the overall reaction is $c_6h_{12}o_6 + 6o_2 \rightarrow 6co_2 + 6h_2o$ atp i ve used this worksheet in my class and students provided feedback that it really helped them get the big picture 1 what is cellular respiration the process of making energy and carbon dioxide from glucose and oxygen the **instructors solution**

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yeast cell is transported from an environment with oxygen to a completely oxygen
free environment which of the following answer choices best describes the
metabolic changes that will occur in the yeast cell choose 1 answer study with
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photosynthesis and cellular respiration are important cell energy processes they are connected in ways that are vital for the survival of almost all forms of life on earth in this activity you will look at these two processes at the cellular level and explore their interdependence model 1 comparison of photosynthesis and respiration sunlight

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explain the relationship between the structure of the mitochondrion and its function structure function inner membrane highly folded increases sa vol ratio so more oxidative phosphorylation occurs matrix has appropriate enzymes and suitable ph for the kreb cycle to occur outer membrane

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cells use the energy stored in chemical bonds of foods to produce compounds that directly power the cell's activities such as ATP. The equation that summarizes cellular respiration using chemical formulas is $6\text{CO}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy}$

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cell respiration is the controlled release of energy from organic compounds to produce atp atp is composed of a sugar and base adenosine connected to three phosphate groups when a phosphate is cleaved to form adp pi the energy stored in the bond is released

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glucose internal respiration is controlled by which allow energy to be released in enzymes carbon dioxide the energy trapped in molecules are called atp aerobic respiration the release of energy from food in the presence of oxygen anaerobic respiration the release of energy from food without requiring the presence of oxygen

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in this cycle the majority of atp produced in respiration comes from the electron transport chain the overall reaction is $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{atp}$ i ve used this worksheet in my class and students provided feedback that it really helped them get the big picture

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1 what is cellular respiration the process of making energy and carbon dioxide from glucose and oxygen the process of inhaling and exhaling through the lungs the process of pumping blood

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