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glucose to produce adenosine triphosphate atp an organic compound the body can use for energy one molecule of glucose can produce a net of 30 32 atp what is the purpose of cellular respiration this energy can then be broken down further into the most basic form of cellular energy adenosine triphosphate or simply atp in general cellular processes are highly regulated and energy producing reactions are often paired with energy consuming reactions this happens all the time in the cell and photosynthesis c6h12o6 o2 h2o co2 e study with quizlet and memorize flashcards containing terms like what is the chemical formula of oxygen glucose is a simple sugar what is the chemical formula of glucose what is the chemical formula of carbon dioxide and more key terms cellular respiration can occur both aerobically using oxygen or anaerobically without oxygen during aerobic cellular respiration glucose reacts with oxygen forming atp that can be used by the cell carbon dioxide and water are created as byproducts the overall equation for aerobic cellular respiration is last updated may 8 2020 definition mitochondria singular mitochondrion are organelles within eukaryotic cells that produce adenosine triphosphate atp the main energy molecule used by the cell for this reason the mitochondrion is sometimes referred to as the powerhouse of the cell the effect of energy transfer across a cellular system on molecular processes follows the two principles below 1 energy is harnessed by capturing conformational states the assembly and activity of functional modules i e protein complexes requires ligand hydrolysis study with quizlet and memorize flashcards containing terms like the diagram below shows energy changes in a specific chemical reaction with and without the addition of an enzyme to the reaction which of the following questions can best be answered by the diagram a does the addition of an enzyme reduce the activation energy required for a in this unit we'll tackle the energetics of 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many cells including most of the cells in your body get energy from glucose $C_6H_{12}O_6$ in a process called cellular respiration during this process a glucose molecule is broken down gradually in many small steps however the process has an overall reaction of $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ energy

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