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what are the reactants of photosynthesis and cellular Feb 21 2022 the reactants of photosynthesis are carbon dioxide and water meaning during photosynthesis carbon dioxide and water are taken in to create energy the reactants of cellular respiration are glucose sugar and oxygen these are taken in by animals and humans to produce energy the cells found in both plants and animals need to produce energy trees produce energy via the

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life sciences the national academies press Jun 13 2021 photosynthesis and cellular respiration including anaerobic processes provide most of the energy for life processes plants or algae form the lowest level of the food web at each link upward in a food web only a small fraction of the matter consumed at the lower level is transferred upward to produce growth and release energy in cellular respiration at the higher

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photosynthesis vs cellular respiration diffen Aug 27 2022 photosynthesis and respiration are reactions that complement each other in the environment they are in reality the same reactions but occurring in reverse while in photosynthesis carbon dioxide and water yield glucose and oxygen through the respiration process glucose and oxygen yield carbon dioxide and water they work well since living organisms supply plants with

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cellular respiration in plants sciencing Aug 23 2019 25 04 2018 the outcome of cellular respiration is that the plant takes in glucose and oxygen gives out carbon dioxide and water and releases energy plants respire at all times of the day and night because their cells need a constant energy source to stay alive as well as being used by the plant to release energy via respiration the glucose produced during photosynthesis is

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cellular respiration wikipedia Jul 26 2022 cellular respiration is the process by which biological fuels are oxidised in the presence of an inorganic electron acceptor such as oxygen to produce large amounts of energy to drive the bulk production of atp cellular respiration may be described as a set of metabolic reactions and processes that take place in the cells of organisms to convert chemical energy from nutrients

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basics of plant respiration pro mix Nov 25 2019 while photosynthesis takes place in the leaves and stems only respiration occurs in the leaves stems and roots of the plant the process of respiration is represented as follows $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + 32 \text{ atp energy}$ as with photosynthesis plants get oxygen from the air through the stomata respiration takes place in the

seeing photosynthesis from space nasa scientists use Jul 22 2019 nasa scientists have established a new way to use satellites to measure what is occurring inside plants at a cellular level plants grow and thrive through photosynthesis a process that converts sunlight into energy during photosynthesis plants emit what is called fluorescence light invisible to the naked eye but detectable by satellites

orise lesson plan just breathe an introduction to photosynthesis May 12 2021 products of photosynthesis and respiration spi 0707 3 2 interpret a diagram to explain how oxygen and carbon dioxide are exchanged between living things and the environment lesson objectives the learner will construct a model of the chemical compounds making up the reactants and products of photosynthesis and cellular respiration