

# Cellular Energy Study Guide

## AP Biology Exam

### Section 1: Photosynthesis

#### Introduction

- Photosynthesis** is the process by which plants and some other organisms use light energy to produce glucose and oxygen from carbon dioxide and water.
- Chloroplasts** are the organelles in plant cells where photosynthesis takes place. They contain chlorophyll, the green pigment that captures light energy.
- Light-dependent reactions** are the first stage of photosynthesis, where light energy is used to split water molecules into oxygen and protons. This process occurs in the thylakoid membranes of the chloroplast.
- Calvin cycle** is the second stage of photosynthesis, where carbon dioxide is fixed into glucose. This process occurs in the stroma of the chloroplast.
- Electron transport chain** is a series of protein complexes in the thylakoid membrane that transfer electrons from water to NADP<sup>+</sup>, creating a proton gradient used for ATP synthesis.
- ATP synthase** is an enzyme that uses the proton gradient to synthesize ATP from ADP and inorganic phosphate.
- Light intensity** is a factor that affects the rate of photosynthesis. Higher light intensity generally leads to a higher rate of photosynthesis, up to a point.
- Carbon dioxide concentration** is another factor that affects the rate of photosynthesis. Higher concentrations of carbon dioxide generally lead to a higher rate of photosynthesis.
- Temperature** also affects the rate of photosynthesis. The rate of photosynthesis increases with temperature up to an optimal point, after which it decreases.

#### Key Concepts

#### Photosynthesis

- The overall equation for photosynthesis is:  $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- Photosynthesis occurs in the chloroplasts of plant cells. The chloroplast has an internal membrane system called the thylakoid system, which is where the light-dependent reactions take place.
- The light-dependent reactions use light energy to split water molecules into oxygen and protons. This process is called photolysis. The oxygen is released into the atmosphere, and the protons are used to create a proton gradient across the thylakoid membrane.
- The Calvin cycle uses the energy from the light-dependent reactions to fix carbon dioxide into glucose. This process is called carbon fixation. The glucose is then used by the plant for energy and growth.

# Study Guide Section 2 Photosynthesis Answers

**J Rink**



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web oxidation reduction redox reactions oxidation  $\text{Cu} \rightarrow \text{Cu}^{2+} + 2\text{e}^{-}$  reduction  $\text{MnO}_4^{-} + 4\text{H}^{+} + 3\text{e}^{-} \rightarrow \text{MnO}_2 + 2\text{H}_2\text{O}$  l when the half reactions listed above are combined into a balanced chemical equation the ratio of the coefficients  $\text{Cu} : \text{MnO}_4^{-}$  is

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web google classroom for the following redox equation  $\text{MnO}_4^{-} + \text{SO}_2 + 2\text{H}^{+} \rightarrow \text{Mn}^{2+} + \text{HSO}_4^{-}$  what will be the stoichiometric coefficient of  $\text{HSO}_4^{-}$  if the above equation is balanced in an acidic medium stuck use a hint report a problem do 4 problems

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web balance this redox reaction by the half reaction method by assuming an acidic solution  $\text{Cr}_2\text{O}_7^{2-} + \text{Fe} \rightarrow \text{Cr}^{3+} + \text{Fe}^{3+}$  balance the redox reaction in exercise 9 by the half reaction method by assuming a basic solution

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web solution 1 the two half reactions balanced as if in acidic solution  $2\text{CN}^{-} + \text{Au} \rightarrow \text{Au} + 2\text{e}^{-}$   $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$  make electrons equal convert to basic solution  $4\text{CN}^{-} + 2\text{Au} \rightarrow 2\text{Au} + 4\text{e}^{-}$  multiplied by a factor of 2  $2\text{H}_2\text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{O}_2$  2oh 3 the final answer

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web aug 29 2023 the first step to balance any redox reaction is to separate the reaction into half reactions the substance being reduced will have electrons as reactants and the oxidized substance will have electrons as products usually all reactions are written as reduction reactions in half reaction tables

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web the half equation method separates the oxidation and reduction of a redox reaction in half reactions overall scheme for the half reaction method step 1 split reaction into half reactions reduction and oxidation step 2 balance the charge or oxidation number with electrons step 3 balance ce o by adding ce h<sub>2</sub>o

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web when balancing equations for redox reactions occurring in basic solution it is often necessary to add oh ions or the oh h<sub>2</sub>o pair to fully balance the equation in this video we ll walk through this process for the reaction between clo and cr oh<sub>4</sub> in basic solution created by jay

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web bonus problem here is a balanced net ionic equation  $3\text{Br}_2 + 6\text{OH}^- \rightarrow 5\text{Br}^- + \text{BrO}_3^- + 3\text{H}_2\text{O}$  the above equation takes place in two stages first bromine reacts with oh ions to form bromide ions and bro ions second the bro ions react to form bromide ions and bromate v ions

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation  $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$  now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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web balancing redox reactions in acidic solution problems 1 10 problem 1  $\text{Cr}_2\text{O}_7^{2-}$   $\text{Fe}^{2+}$   $\text{Cr}^{3+}$   $\text{Fe}^{3+}$  solution 1 balanced half reactions  $6\text{e}^-$   $14\text{H}^+$   $\text{Cr}_2\text{O}_7^{2-}$   $2\text{Cr}^{3+}$   $7\text{H}_2\text{O}$   $\text{Fe}^{2+}$   $\text{Fe}^{3+}$   $\text{e}^-$  2 equalize the electrons  $6\text{e}^-$   $14\text{H}^+$   $\text{Cr}_2\text{O}_7^{2-}$   $2\text{Cr}^{3+}$   $7\text{H}_2\text{O}$   $6\text{Fe}^{2+}$   $6\text{Fe}^{3+}$   $6\text{e}^-$  multiplied by a factor of 6

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web when balancing equations for redox reactions occurring in acidic solution it is often necessary to add  $\text{H}^+$  ions or the  $\text{H}_2\text{O}$  pair to fully balance the equation in this video we ll walk through this process for the reaction between dichromate  $\text{Cr}_2\text{O}_7^{2-}$  and chloride  $\text{Cl}^-$  ions in acidic solution created by jay

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web balance each half reaction in basic solution 4 5 6 7  $\text{Cr}_2\text{O}_7^{2-}$  2  $\text{NO}_3^-$   $\text{SO}_4^{2-}$   $\text{MnO}_2$   $\text{Cr}^{3+}$   $\text{NO}_3^-$   $\text{SO}_2$   $\text{Mn}_2\text{O}_3$  balance each redox reaction in acid solution using the half reaction method 8  $\text{H}_2\text{O}_2$   $\text{Cr}_2\text{O}_7^{2-}$  2 9  $\text{TeO}_3^{2-}$  2  $\text{N}_2\text{O}_4$   $\text{O}_2$   $\text{Cr}^{3+}$   $\text{Te}$  10  $\text{ReO}_4^-$  11  $\text{PbO}_2$   $\text{IO}_3^-$   $\text{Pb}^{2+}$  12  $\text{AsO}_3^{3-}$   $\text{IO}_3^-$   $\text{Re}$   $\text{IO}_3^-$   $\text{H}_2\text{AsO}_4^-$

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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding  $\text{H}_2\text{O}$   $\text{H}^+$  and  $\text{e}^-$  in this order balance the atoms in the equation apart from o and h

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively  $\text{C}_6\text{H}_8\text{O}_6$   $2\text{H}_2\text{NO}_2$   $\text{C}_6\text{H}_6\text{O}_6$   $2\text{H}_2\text{O}$   $2\text{NO}$  choose 1 answer  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  a  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  b  $\text{NO}_2$  and  $\text{C}_6\text{H}_8\text{O}_6$  b  $\text{NO}_2$  and  $\text{C}_6\text{H}_8\text{O}_6$  h and  $\text{NO}_2$  c h and

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