

# Ap biology chapter 10 notes

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**What is the hardest chapter in AP Biology?** In AP Biology, the level of difficulty for each unit can vary from student to student, depending on their background and strengths. However, many students often find the cellular processes and molecular biology units to be quite challenging.

**What is the net production of one G3P requires?** The net production of one G3P requires 9 molecules of ATP and 6 molecules of NADPH.

**Can the Calvin cycle alone create sugar from carbon dioxide during photosynthesis?** The G3P from the Calvin cycle is the starting material for metabolic pathways that synthesize other organic compounds, including glucose and other carbohydrates. Neither the light reactions nor the Calvin cycle alone can make sugar from CO<sub>2</sub>.

**What is photosynthesis in biology pdf notes?** Photosynthesis is the process by which plants, some bacteria and some protists use the energy from sunlight to produce glucose from carbon dioxide and water. This glucose can be converted into pyruvate which releases adenosine triphosphate (ATP) by cellular respiration. Oxygen is also formed.

**What is the easiest AP subject?**

**Is AP Bio or Chem harder?** The difficulty of AP Biology and AP Chemistry can vary depending on your personal strengths and interests. Generally speaking, AP Chemistry is considered more difficult because it requires a stronger foundation in math and involves learning complex equations and problem-solving techniques.

**How many ATP are produced per G3P?** In the second stage glyceraldehyde 3-phosphate is converted in a series of steps to pyruvate/lactate, resulting in the generation of 2 molecules of ATP per molecule of glyceraldehyde-3-phosphate. Thus, a net of 2 molecules of ATP is generated in the conversion of glucose to pyruvate.

**How many CO<sub>2</sub> must enter the Calvin cycle to produce 1 net G3P?** To produce 1 molecule of G3P (which contains 3 carbons), the Calvin cycle must take up 3 molecules of CO<sub>2</sub> (1 carbon atom each). The 3 CO<sub>2</sub> molecules are added to 3 RuBP molecules (which contain 15 total carbon atoms), next producing 6 molecules of 3-PGA (18 total carbon atoms).

**How many Calvin cycles does it take to make 1 G3P?** IOW, for every six CO<sub>2</sub> molecules fixed by the Calvin cycle — one turn of the cycle produces one G3P (triose phosphate).

**What is the Z scheme of photosynthesis?** The “Z” scheme describes the oxidation/reduction changes during the light reactions of photosynthesis. In the Z scheme, electrons are removed from water (to the left) and then donated to the lower (non-excited) oxidized form of P680.

**What is a stack of thylakoids called?** A stack of thylakoids is known as "Granum". It increases the surface area of the chloroplasts.

**Which enzyme is most abundant in the world?** Ribulose-1,5-bisphosphate carboxylase/oxygenase, better known by the name Rubisco, is the key enzyme responsible for photosynthetic and chemoautotrophic carbon fixation and oxygen metabolism. Scientists believe it is the most abundant enzyme on the planet.

**Is photosynthesis endothermic or exothermic?** Photosynthesis is an endothermic reaction. This means it cannot occur without energy (from the Sun). The light required is absorbed by a green pigment.

**What two conditions are needed for photosynthesis?** This process is called photosynthesis and is performed by all plants, algae, and even some microorganisms. To perform photosynthesis, plants need three things: carbon dioxide, water, and sunlight. for photosynthesis. Carbon dioxide enters through tiny

holes in a plant's leaves, flowers, branches, stems, and roots.

**What is the food made by a plant stored as starch?** During photosynthesis, food is produced in plants in the form of glucose. The glucose gets converted to a polymeric form of carbohydrate called the starch. Therefore, the food prepared in plants is stored in the form of starch.

**What is the most failed AP exam?** 1) AP Physics 1 In addition, it has the lowest overall pass rate of any AP exam. Students undertake laboratory work (which they are encouraged to save, as colleges may request to see it before granting credit) while completing extensive work in seven subjects, such as kinematics, energy, and harmonic motion.

**What is the lowest scoring AP exam?** AP Physics 1 Physics 1 has the lowest pass rate of any AP exam (43.3%) along with one of the lowest percentages of students scoring a 5 (just 7.9%). Physics 1 is an algebra-based physics class that explores topics such as Newtonian mechanics, simple circuits, and mechanical waves.

**What is the hardest AP bio unit?** In my experience, the most difficult unit in AP Bio for many students is Cellular Energetics (Unit 3).

**Is AP bio memorization?** As mentioned, although AP Biology is memorization-heavy, it's also important to have a solid understanding of basic science and experimental design to succeed.

**Is AP Bio or Physics easier?** Many students would say that AP Physics is one of the hardest AP classes, while AP Bio is one of the easiest. This is because AP Physics is heavily based on high-level math, while AP Bio is all about writing and memorization. Khan Academy is a great resource to use to prepare for both classes.

**Does AP Biology look good?** Yes, taking AP Biology and passing the AP exam can boost a student's GPA, prepare them for rigorous college coursework, and offer college credits.

**What is the easiest chapter in biology?**

**Which part of biology is the hardest?** Molecular Cell Biology is one of the hardest biology degrees to study, and biology in itself is a very challenging discipline.

Studying molecular cell biology is like learning a new language, as there is an incredibly complex vocabulary to describe the structure and function of life at the molecular level.

**Is AP Bio the hardest AP?** Is AP Biology Easy Or Hard? AP Biology is considered quite hard, with class alumnae rating it 6.4/10 for overall difficulty (the 8th-most-difficult out of the 28 large AP classes surveyed). The pass rate is about average vs other AP classes, with 64% graduating with a 3 or higher.

**Which AP science is the hardest?** Consequently, both Physics C courses (Mechanics as well as Electricity & Magnetism) are regarded as two of the hardest AP classes that you can take in high school. You'll cover topics like electrostatics, conductors, and electromagnetism over the course of five units.

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