

# Ap biology chapter 13 reading answers

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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 a somatic cell AP Biology?** Somatic cells are the cells in the body other than sperm and egg cells (which are called germ cells). In humans, somatic cells are diploid, meaning they contain two sets of chromosomes, one inherited from each parent.

**Where are gametes of an animal produced?** In mammals, gametes are produced in the testes or ovaries of individuals but anthers and ovaries are on the same flowering plant.

**How does a human somatic cell compare to a gamete in terms of chromosome number?** Human somatic cells have 46 chromosomes consisting of two sets of 22 homologous chromosomes and a pair of nonhomologous sex chromosomes. This is the  $2n$ , or diploid, state. Human gametes have 23 chromosomes or one complete set of chromosomes. This is the  $n$ , or haploid, state.

**Is AP Bio or Chem easier?** The general consensus is that AP Chemistry is often considered more difficult than AP Biology. This is due to the fact that AP Chemistry typically involves more complex mathematical calculations and abstract concepts.

**What is the easiest AP subject?**

**What chicken has 78 chromosomes?** The karyotype of chicken, *Gallus domesticus* consists of  $2n=78$  chromosomes. However, 12 chromosomes or 6 pairs

are called microchromosomes and the remaining 66, or 33 pairs of chromosomes are called microchromosomes.

**What animal has 90 chromosomes?** A hedgehog has 90 chromosomes in its somatic cells.

**What does MPF trigger?** Once active, MPF in the cell cycle causes phosphorylation of important target proteins. For example, proteins in the nuclear envelope are phosphorylated and are marked for destruction. This allows for the dissolving of the nuclear envelope, a key event in early M phase.

**What is female sperm called?** In animals, female gametes are called ova or egg cells, and male gametes are called sperm. Ova and sperm are haploid cells, with each cell carrying only one copy of each chromosome.

**Is a zygote a haploid or diploid?** The zygote is endowed with genes from two parents, and thus it is diploid (carrying two sets of chromosomes).

**Is a brain cell haploid or diploid?** Answer and Explanation: Brain cells are called diploid cells because they have chromosomes that are in pairs. In the human body, almost all cells are diploid cells and have 46 chromosomes.

**What does n represent in biology?** The number of chromosomes in a single set is represented as n, which is also called the haploid number. In humans,  $n = 23$ . Gametes contain half the chromosomes contained in normal diploid cells of the body, which are also known as somatic cells.

**How do you tell if a cell is somatic or gamete?** Somatic cells have a diploid genome. This means that they get two copies of each chromosome, one from the mother and one from the father. Gametes on the other hand are formed through a process called meiosis, which creates a haploid genome. Haploid means that these cells only get one copy of each chromosome.

**Which process forms gametes?** Gametes are formed through meiosis (reduction division), in which a germ cell undergoes two fissions, resulting in the production of four gametes. During fertilization, male and female gametes fuse, producing a diploid (i.e., containing paired chromosomes) zygote.

### **What grade do most people take AP Bio?**

**How many is too many AP classes?** Taking and doing well on more than 5 AP course exams doesn't significantly improve a student's chances of getting good first-year college grades and four-year degree completion, the nonprofit found.

### **Which AP is the hardest?**

**What is the least passed AP class?** Looking at the numbers, the hardest AP test is Physics 1. In May 2022, just 43.3% of test-takers passed, and only 7.9% received a perfect score. Other hard AP exams include US History, Macroeconomics, Chemistry, and Calculus AB.

**Is 11 AP classes enough?** Many competitive applicants at top universities take anywhere from 7 – 12 AP classes throughout high school. In fact, some universities even require students to take multiple AP classes in order for any of them to count as college credit.

**Is 9 APs good?** 9 APs is generally enough to be a competitive applicant to top schools.

### **Who has 32 chromosomes?**

**What has 56 chromosomes?** 1. An elephant is a diploid animal with 56 chromosomes (28 pairs) in each of its somatic cells.

**What egg has 23 chromosomes?** Egg and sperm cells have just 23 chromosomes each. That's half as many chromosomes as regular cells. Through the process of fertilization, egg and sperm join to make a cell with 46 chromosomes (23 pairs), called a zygote.

**What animal only has 1 chromosome?** Yes, there are haploid animals, e.g. the male hymenoptera (drones of bees, wasps and hornets). As well there are haploid generations of some endoparasites. The animal with the fewest chromosomes is an Australian ant, the Jack-jumper ant, *Myrmecia pilosula*. The male has a single unpaired chromosome.

**What animal is difficult for scientists to study?** Elusive, smart, few in number, and wary of people, the wolverine is considered one of the most difficult animals for scientists to study. For the first time, a sweeping study reviews wolverine research from around the world since 2000 points to what wolverines need to survive in a rapidly changing world.

**What has the most DNA?** *Paris japonica*, the Japanese canopy plant, has the largest genome of any organism analysed to date. At 149 billion base pairs (giga bp or Gbp) of DNA, it's about 50 times bigger than the human genome.

**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.

**What biology class is the hardest?**

**Is biology more difficult than physics?** While both subjects involve a comprehensive understanding of complex concepts, Biology tends to have a larger volume of content to learn. As a result, students need to have excellent memory and organisation skills to succeed.

**Is biology the easiest science?** 3) Biology Depending on your career of choice, you may find that biology can be one of the easiest or hardest science majors (e.g. if

you're going to be a physician, you'll need to spend at least 6-13 years in med school and a residency). [vi] Most careers in biology will see around 3%-5% growth over the next decade.

### **What is the hardest word in biology?**

**What is the toughest chapter in biology?** Cell: The Unit of Life – This chapter delves into the intricate details of cell structure and functions, making it one of the toughest chapters in Class 11 Biology. Understanding concepts like cell organelles and their functions requires thorough study and comprehension.

### **What is the hardest question in biology?**

**What is the fail rate of AP Bio?** Since these exams accompany advanced Physics, they tend to weed out many potential test takers. Since 2017, the passing rate for the AP® Biology exam has remained relatively steady. In 2021, the passing rate was 59.2%, and in 2022, it rose slightly to 67.9%.

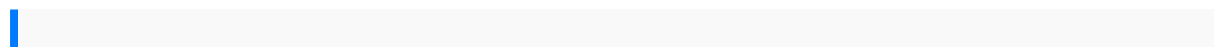
### **Which AP is the easiest?**

**Is apes or ap bio easier?** In terms of difficulty, AP Biology is often considered to be more challenging than AP Environmental Science, but it ultimately depends on your natural inclinations and background knowledge.

**Is 9 APs good?** 9 APs is generally enough to be a competitive applicant to top schools.

**What is the least passed AP exam?** AP Physics 1 is the hardest AP class with the least passing rate of 51.6. It means almost half of the students fail this exam. It's 3 hours exam consist of 50 MCQs and 5 free-response questions.

**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.



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