

# Ap biology reading answer chapter 15

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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 key of the chromosomal basis of inheritance?** Key points: Boveri and Sutton's chromosome theory of inheritance states that genes are found at specific locations on chromosomes, and that the behavior of chromosomes during meiosis can explain Mendel's laws of inheritance.

**What was an article in scientific American about proteasomes was entitled?** An article in Scientific American about proteasomes was entitled "Little Chamber of Horrors."

**When genes are located on the same chromosome, we call this?** Genes that are located on the same chromosome are called linked genes. Alleles for these genes tend to segregate together during meiosis, unless they are separated by crossing-over. Crossing-over occurs when two homologous chromosomes exchange genetic material during meiosis I.

**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?**

**Why can you say that all calico cats are female?** Because the genetic determination of coat colors in calico cats is linked to the X chromosome, calicoes

are nearly always female, with one color linked to the maternal X chromosome and a second color linked to the paternal X chromosome.

**Why is DNA the basis of inheritance?** The ability of each strand of a DNA molecule to act as a template for producing a complementary strand enables a cell to copy, or replicate, its genes before passing them on to its descendants.

**What is a loci in biology?** A locus (or loci, plural) is the actual location of the gene on a region of a chromosome. An allele is a different form of a gene at a particular locus.

**How many proteins make up the proteasome?** The most common form of the proteasome is the 26S proteasome, which contains two 19S regulatory particles that preprocess protein substrates for degradation by the 20S core particle. The 20S core particle is composed of 28 subunits, which are 2 sets of 7 different  $\alpha$  subunits ( $\alpha_1$ – $\alpha_7$ ) and 7 different  $\beta$  subunits ( $\beta_1$ – $\beta_7$ ).

**What is a proteasome in biology?** The proteasome is a large protein complex responsible for degradation of intracellular proteins, a process that requires metabolic energy.

**How do proteasomes degrade proteins?** Proteins are marked for degradation by the attachment of ubiquitin to the amino group of the side chain of a lysine residue. Additional ubiquitins are then added to form a multiubiquitin chain. Such polyubiquitinated proteins are recognized and degraded by a large, multisubunit protease complex, called the proteasome.

**Which type of genetic disease often skips a generation?** Autosomal recessive diseases typically affect both females and males equally. Autosomal recessive patterns manifest by skipping generations as the affected are usually children of unaffected carriers. It is also common to see affected individuals with unaffected offspring.

**What is the reason that closely linked genes are typically inherited together?** Linked genes sit close together on a chromosome, making them likely to be inherited together (left). Genes on separate chromosomes are never linked (center). But not all genes on a chromosome are linked.

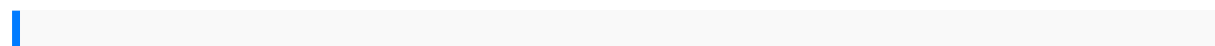
**Are all 23 pairs of chromosomes homologous?** In humans. Humans have a total of 46 chromosomes, but there are only 22 pairs of homologous autosomal chromosomes. The additional 23rd pair is the sex chromosomes, X and Y. Note that the pair of sex chromosomes may or may not be homologous, depending on the sex of the individual.

**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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