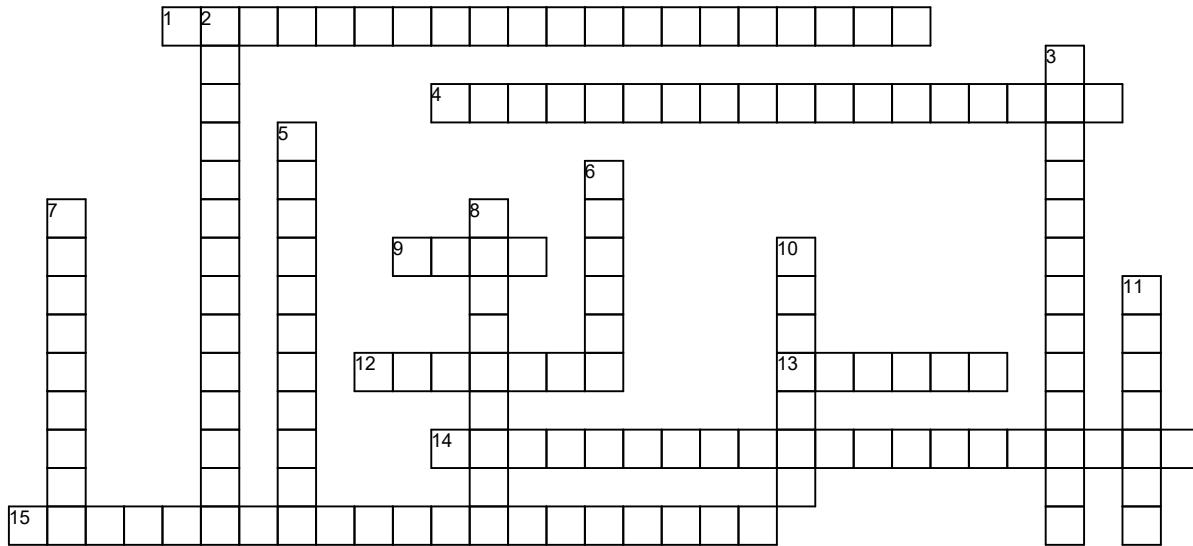


AP Biology Vocabulary Crossword Puzzle 17

1. Using the Across and Down clues, write the correct words in the numbered grid below.



ACROSS

1. The type of reaction that links together monomers to make polymers and release water in the process.
4. The process of combining the DNA of two different organisms.
9. The section of DNA that is responsible for the production of one new polypeptide.
12. The waxy protective layer on plants that prevents desiccation.
13. An organic catalyst that lowers the activation energy of chemical reactions in organisms thus increasing the rate of reaction.
14. The movement of molecules across the cell membrane without the use of ATP, but with the help of a protein.
15. The series of membranes inside the cell that allow for passage of materials through the cytoplasm and the synthesis of lipids.

DOWN

2. A cell with a nucleus and membrane bound organelles.
3. The theory that eukaryotic cells arose from prokaryotic cells that lived closely together to the point that we now call these former cells "mitochondria" and "chloroplasts."
5. After mitosis or meiosis it is the "splitting" of the cytoplasm to form two or four new cells each with its own nucleus.
6. The entire complement of chromosomes in an individual.
7. Net passive movement of particles from a region of higher concentration to region of lower concentration until the concentration of substances is uniform throughout.
8. The enzyme that splices DNA together in genetic engineering and the Okazaki fragments of replication.
10. The haploid cells produce by meiosis.
11. Cells that have two copies of each kind of chromosome.

genetic engineering

gene

DNA ligase

cytokinesis

endoplasmic reticulum

diploid

cuticle

diffusion

enzyme

dehydration synthesis

endosymbiosis

gametes

facilitated diffusion

genome

eukaryotic cell