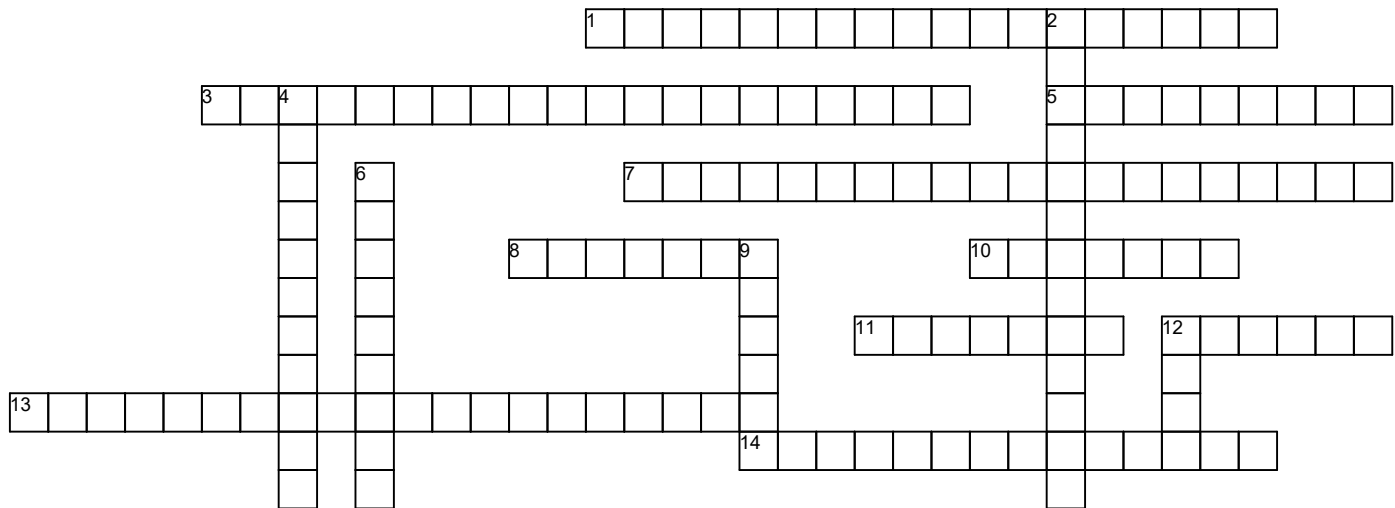


AP Biology Vocabulary Crossword Puzzle 3

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



ACROSS

1. The process of combining the DNA of two different organisms.
3. The movement of molecules across the cell membrane without the use of ATP, but with the help of a protein.
5. The enzyme that splices DNA together in genetic engineering and the Okazaki fragments of replication.
7. The type of reaction that links together monomers to make polymers and release water in the process.
8. The waxy protective layer on plants that prevents desiccation.
10. The haploid cells produce by meiosis.
11. Cells that have two copies of each kind of chromosome.
12. The entire complement of chromosomes in an individual.
13. The series of membranes inside the cell that allow for passage of materials through the cytoplasm and the synthesis of lipids.
14. A cell with a nucleus and membrane bound organelles.

diploid
gametes

genome
dehydration synthesis
genetic engineering

enzyme
gene
endosymbiosis
diffusion
eukaryotic cell

DOWN

2. 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."
4. After mitosis or meiosis it is the "splitting" of the cytoplasm to form two or four new cells each with its own nucleus.
6. Net passive movement of particles from a region of higher concentration to region of lower concentration until the concentration of substances is uniform throughout.
9. An organic catalyst that lowers the activation energy of chemical reactions in organisms thus increasing the rate of reaction.
12. The section of DNA that is responsible for the production of one new polypeptide.

cytokinesis
DNA ligase
facilitated diffusion
endoplasmic reticulum
cuticle