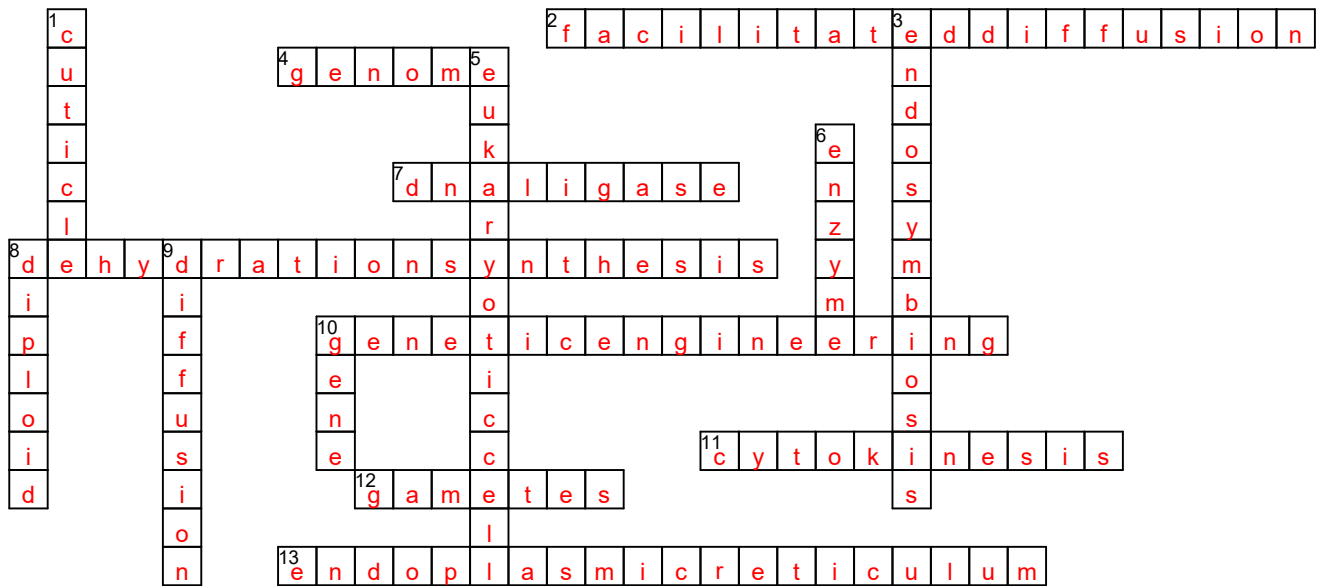


# AP Biology Vocabulary Crossword Puzzle 24

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



## ACROSS

2. The movement of molecules across the cell membrane without the use of ATP, but with the help of a protein.
4. The entire complement of chromosomes in an individual.
7. The enzyme that splices DNA together in genetic engineering and the Okazaki fragments of replication.
8. The type of reaction that links together monomers to make polymers and release water in the process.
10. The process of combining the DNA of two different organisms.
11. After mitosis or meiosis it is the "splitting" of the cytoplasm to form two or four new cells each with its own nucleus.
12. The haploid cells produce by meiosis.
13. The series of membranes inside the cell that allow for passage of materials through the cytoplasm and the synthesis of lipids.

## DOWN

1. The waxy protective layer on plants that prevents desiccation.
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. A cell with a nucleus and membrane bound organelles.
6. An organic catalyst that lowers the activation energy of chemical reactions in organisms thus increasing the rate of reaction.
8. Cells that have two copies of each kind of chromosome.
9. Net passive movement of particles from a region of higher concentration to region of lower concentration until the concentration of substances is uniform throughout.
10. The section of DNA that is responsible for the production of one new polypeptide.

genetic engineering  
endosymbiosis  
genome  
gene  
eukaryotic cell

facilitated diffusion  
enzyme  
dehydration synthesis  
DNA ligase  
gametes

cuticle  
cytokinesis  
endoplasmic reticulum  
diploid  
diffusion