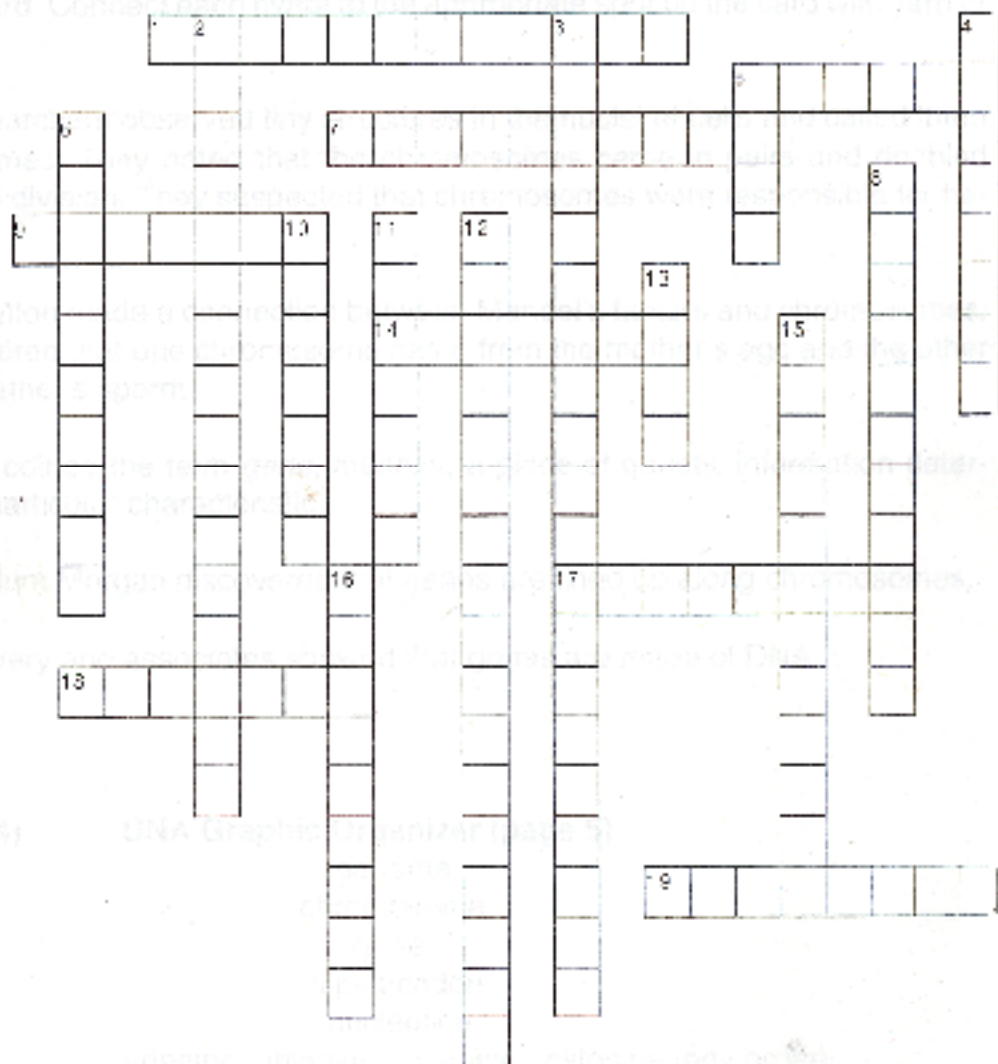


DNA Crossword Puzzle

Directions: Use the clues below and information from the DNA bulletin board or other resource to complete the crossword puzzle.

ACROSS

1. Experimented with pea plants and described how traits were inherited (two words)
6. The information carried in all the chromosomes of an organism
7. Contains one of the four base compounds and is the smallest bit of genetic information
9. Three nucleotides that together specify one amino acid
11. One of the four nucleic acid base compounds; it only pairs with thymine
17. One of the four nucleic acid base compounds; it only pairs with guanine
18. The spherical membrane bound structure in a cell that contains the DNA
19. The supporting structure of the DNA double helix is called the sugar-phosphate _____.



DOWN

2. Discovered the double helix shape of DNA (two words)
3. A molecule that consists of two complementary strands connected by base pairs (two words)
4. The process of traits being passed from one generation to the next by the transmission of genes from parents' offspring
5. A string of triplets that specifies a particular protein
6. A spooled string of genes packaged in a single unit
8. Identified DNA as the inheritance molecule (two words)
10. One of the four nucleic acid base compounds; it only pairs with adenine
11. One of the four nucleic acid base compounds; it only pairs with cytosine
12. First to show the existence of an inheritance molecule (two words)
13. The smallest, membrane-bound protoplasmic body capable of independent reproduction
15. Partner of James Watson; the two made the first accurate model of the DNA molecule (two words)
16. Hydrogen bonds between adenine and thymine or guanine and cytosine form _____ that join the two strands of the DNA double helix.