



**Across:**

1. loosely packed chromatin
3. the rule where DNA was found 50% purines and 50% pyrimidines
4. the organized structure of bacterial genomes
6. a DNA structure with 2.2nm diameter
9. the structure of DNA
12. sugar-phosphate represent the ..... of DNA
15. the representation of metaphase chromosomes
18. the region of the chromosomes where the two arms connect
19. a DNA structure with 2nm diameter
21. Sugar-phosphate are located on the ..... of the DNA double helix
22. how are the two strands of DNA oriented?
24. the nucleosome histone core is made of eight proteins called ...
25. a virus with an RNA genome
26. what is the direction of DNA double helix twisting?
30. extra chromosomal unit in bacteria that carries additional genes
31. a DNA structure with left-handed double helix
32. number of chromosomes in prokaryotes
33. the method to study the fine structure of molecule

**Down:**

2. the prokaryotic genome is organized in a ..... form
5. a single complete set of chromosomes in a cell
7. two complete sets of chromosomes in a cell
8. condensed nucleosomes form a .....
10. Nitrogenous bases are stacked ..... and perpendicular to the axis of the helix
11. (A) forming hydrogen bonds with (T)
13. the interaction between DNA and histone proteins form a .....
14. how many polynucleotides make the DNA structure?
16. Nitrogenous bases are located on the ..... of the DNA double helix
17. six complete sets of chromosomes in a cell
20. number of set of genomes (chromosomes) in a given cell
23. the end of a chromosome
27. densely packed chromatin
28. the two strands of DNA are held together by .....
29. 2nm represents the ..... of the DNA double helix