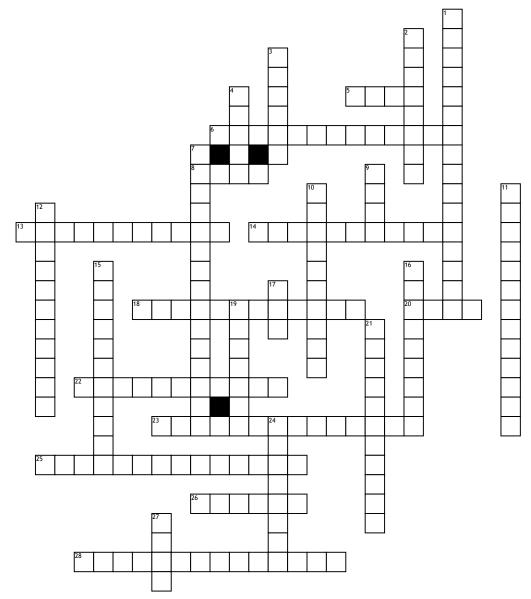
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## Chapter 12 and 13



## **Across**

- **5.** Type of RNA that combines with proteins to from ribosomes
- **6.** Synthesis of an RNA molecule form a DNA template
- **8.** Introduction of double-stranded RNA into a cell to inhibit gene expression
- **13.** Long chain of amino acids that makes proteins
- **14.** Process of copying DNA prior to cell division.
- **18.** Holds the two strands of DNA together.
- **20.** Type of RNA that carries each amino acid to a ribosome during protein synthesis
- **22.** Principle that bounds in DNA can form only between adenine and thymine and between guanine and cytosine.
- 23. Process by which a gene produces its product and the product carries out its function

- **25.** Process in which one strain of bacteria is changed by a gene or genes from another strain of bacteria
- **26.** Sequence of DNA that is not involved in coding for a protein
- 28. This people made a modle of DNA Down
- 1. This person took an X-ray picture of
- DNA.

  2. Change in the genetic material of a cell
- 3. This base pairs with Adenine
- 4. Type of RNA that determains the genes
- 7. Technique Franklin used to study DNA
- **9.** Type of RNA that carries copies of instruction for the assembly of amino acids into proteins from DNA to the rest of the cell
- **10.** Condition in which an organism has extra set of chromosomes
- **11.** Principal enzyme involved in DNA replication

- 12. DNA has this type of structure
- **15.** Process by which the sequence of bases of an mRNA is converted into the sequence of amino acids of a protein
- **16.** Group of three bases on a tRNA molecule that are complementary to the three bases of a codon of mRNA
- **17.** Single-stranded nucleic acid that contains the sugar ribose.
- 19. This base pairs with cytosine
- **21.** Collection of codons of mRNA, each of which directs the incorporation of a particular amino acid into a protein during protein synthesis
- **24.** Specific region of a gene where RNA polymerase can bind and begin transcription
- 27. Expressed sequence of DNA; codes for protein