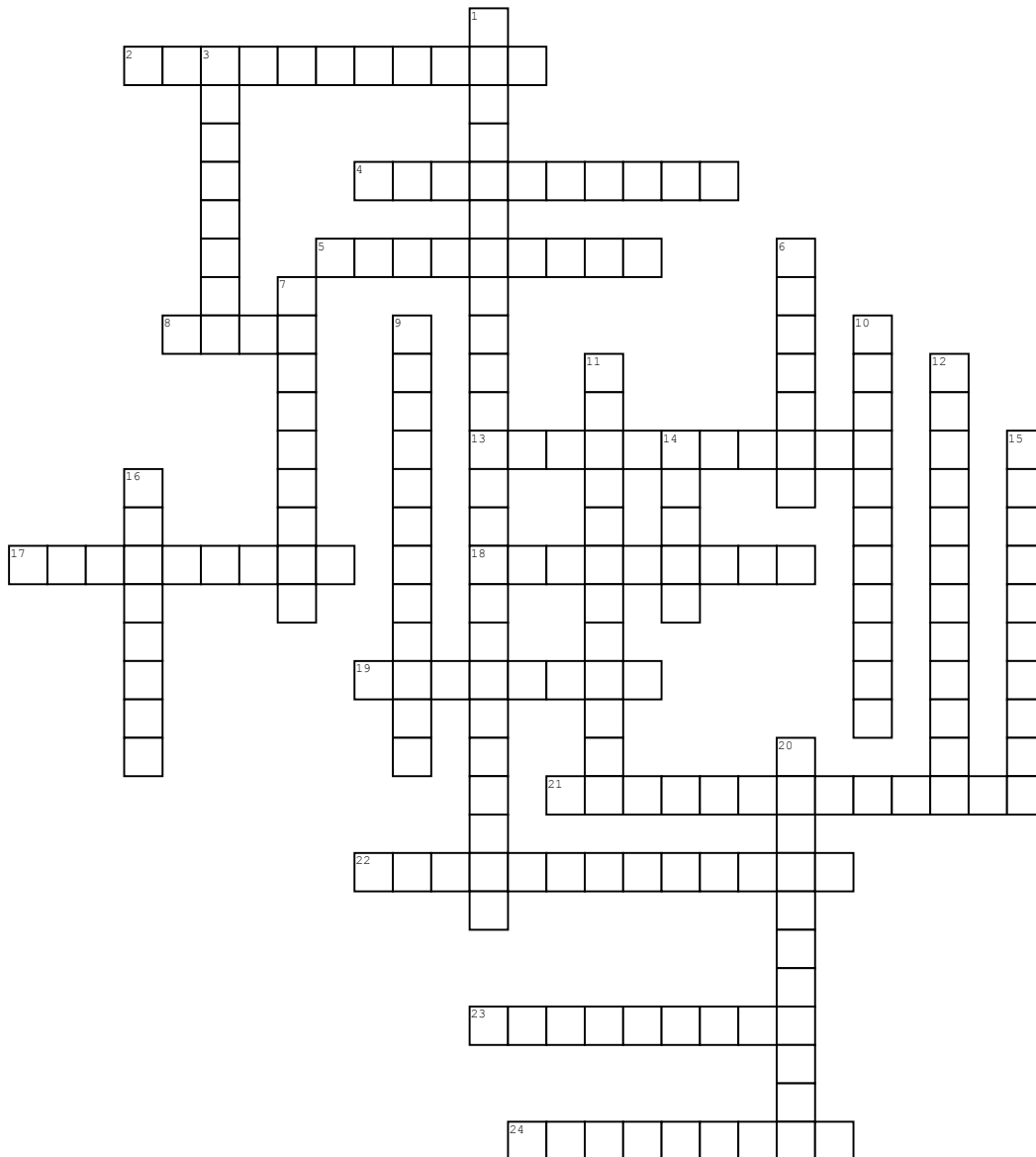


## Biology Vocabulary ( ` ω ´ ) Week 4

**Across**

2. The process in which ribosomes in a cell's cytoplasm create proteins  
 4. A compound consisting of a nucleoside linked to a phosphate group  
 5. The material of which the chromosomes of organisms other than bacteria are composed  
 8. The fundamental, physical, and functional unit of heredity  
 13. The process of duplicating or producing an exact copy of a polynucleotide strand such as DNA  
 17. A minute cylindrical organelle near the nucleus in animal cells, occurring in pairs and involved in the development of spindle fibers in cell division  
 18. A sequence of three nucleotides forming a unit of genetic code in a transfer RNA molecule, corresponding to a complementary codon in messenger RNA  
 19. The first stage of cell division  
 21. An enzyme that catalyzes the synthesis of an RNA strand from a DNA template

22. The process by which the information in a strand of DNA is copied into a new molecule of messenger RNA

23. The second stage of cell division

24. The final phase of cell division

**Down**

1. Either of the nucleotide bases linked by a hydrogen bond on opposite strands of DNA or double-stranded RNA  
 3. The stage of meiotic or mitotic cell division in which the chromosomes move away from one another to opposite poles of the spindle  
 6. A type of cell division that results in two daughter cells each having the same number and kind of chromosomes as the parent nucleus  
 7. The series of events that take place in a cell leading to its division and duplication of its DNA to produce two daughter cells  
 9. A molecular component of a ribosome, the cell's essential protein factory

10. Small RNA molecules that carry amino acids to the ribosome for polymerization into a polypeptide

11. The division of a cell into two daughter cells with the same genetic material

12. An RNA molecule transcribed from the DNA of a gene, and from which a protein is translated by the action of ribosomes

14. A sequence of three nucleotides that together form a unit of genetic code in a DNA or RNA molecule

15. The resting phase between successive mitotic divisions of a cell, or between the first and second divisions of meiosis

16. The changing of the structure of a gene

20. The cytoplasmic division of a cell at the end of mitosis or meiosis, bringing about the separation into two daughter cells