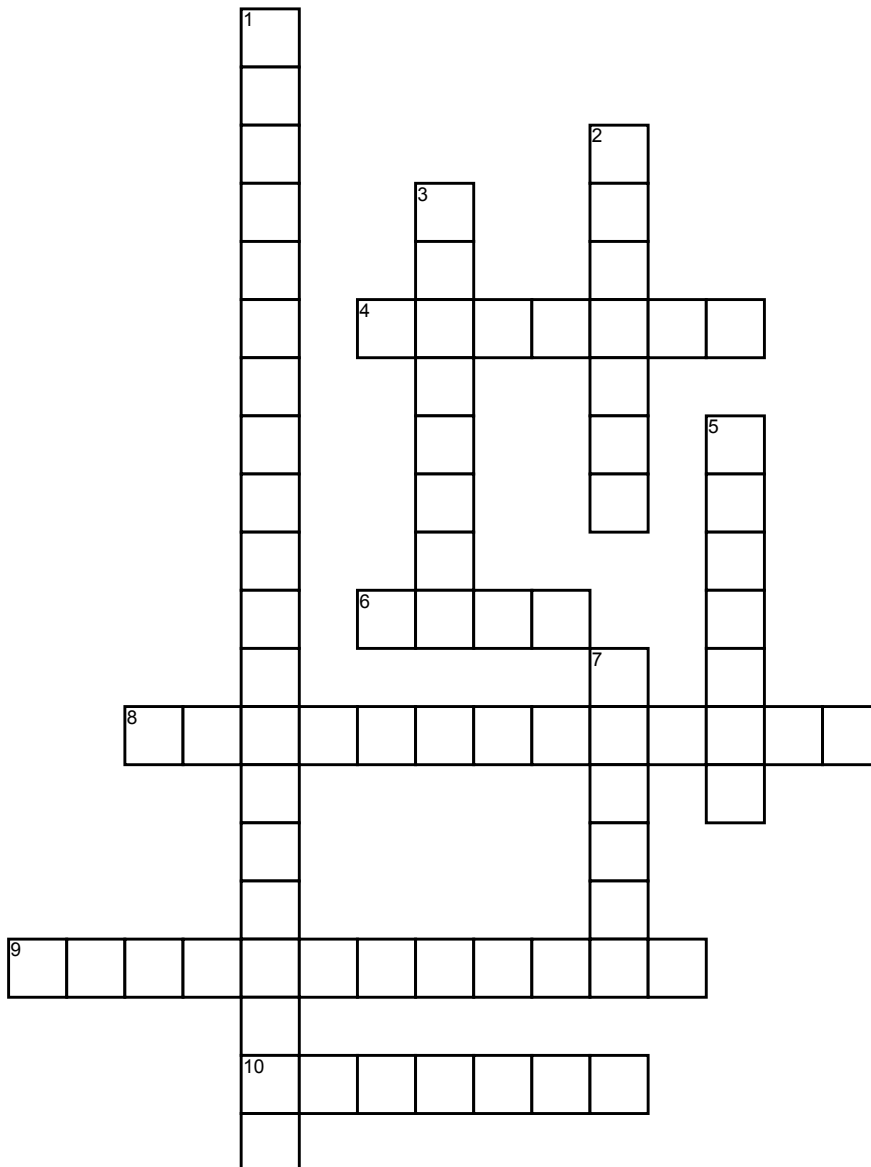


# Mitosis and Meiosis



## Across

- 4.** having a single set of unpaired chromosomes
- 6.** a unit of heredity which is transferred from a parent to offspring and is held to determine some characteristic of the offspring
- 8.** the action or process of fertilizing an egg, female animal, or plant, involving the fusion of male and female gametes to form a zygote
- 9.** the exchange of genes between homologous chromosomes, resulting in a mixture of parental characteristics in offspring
- 10.** a type of cell division that results in four daughter cells each with half the number of chromosomes of the parent cell, as in the production of gametes and plant spores

## Down

- 1.** are two pieces of DNA within a diploid organism which carry the same genes, one from each parental source
- 2.** a type of cell division that results in two daughter cells each having the same number and kind of chromosomes as the parent nucleus, typical of ordinary tissue growth
- 3.** the third phase of mitosis, during which the chromosome pairs separate and move toward opposite poles
- 5.** containing two complete sets of chromosomes, one from each parent
- 7.** a mature haploid male or female germ cell which is able to unite with another of the opposite sex in sexual reproduction to form a zygote