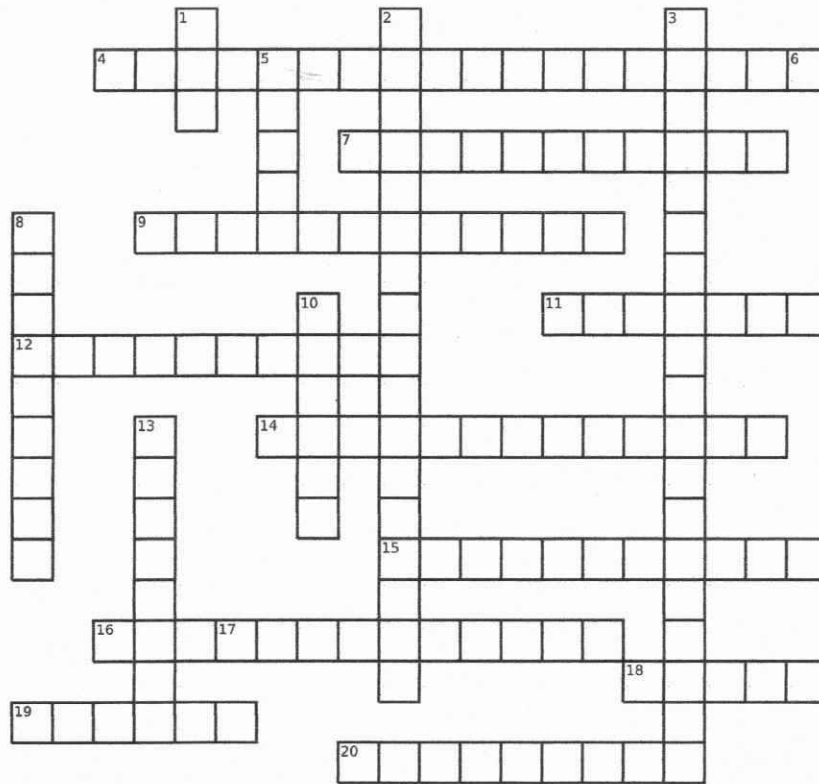


# DNA and Biotechnology Review



## Across

- 4 transferring a fragment of genetic material from one organism to another organism of a different species (2 Words)
- 7 the process by which DNA makes a copy of itself is called DNA \_\_\_\_
- 9 a mutation where one base replaces another
- 11 in genetic engineering the DNA is manipulated for use in \_\_\_\_\_, agricultural, or industrial use
- 12 the molecule that makes up DNA made of a sugar, phosphate, and nitrogen base
- 14 adenine, thymine, guanine, cytosine are the 4 \_\_\_\_\_ that make up DNA (2 Words)
- 15 Watson and Crick discovered the DNA molecule looked like a twisted ladder or \_\_\_\_ (2 Words)
- 16 The use and application of living things and biological processes to solve problems
- 18 scientists must weigh the \_\_\_\_\_ and rewards when deciding how to use biotechnology
- 19 If 2 organisms have identical genetic material they are called
- 20 a mutation where an extra base is added

## Down

- 1 one way that artificial selection is different from genetic engineering is that artificial selection does not change the \_\_\_\_\_
- 2 a type of artificial selection where dogs are bred for favorable traits (2 Words)
- 3 growing larger fruits by saving and planting the best seeds over many generations (2 Words)
- 5 identical \_\_\_\_\_ have the same DNA
- 6 in DNA the nitrogen base C always pairs with \_\_\_\_\_
- 8 cloning results in organisms that are genetically \_\_\_\_\_
- 10 In order for something to be cloned it must be a \_\_\_\_\_ organism
- 13 a change in the base sequence in DNA is called a \_\_\_\_\_
- 17 in DNA. The nitrogen base A always pairs with \_\_\_\_\_