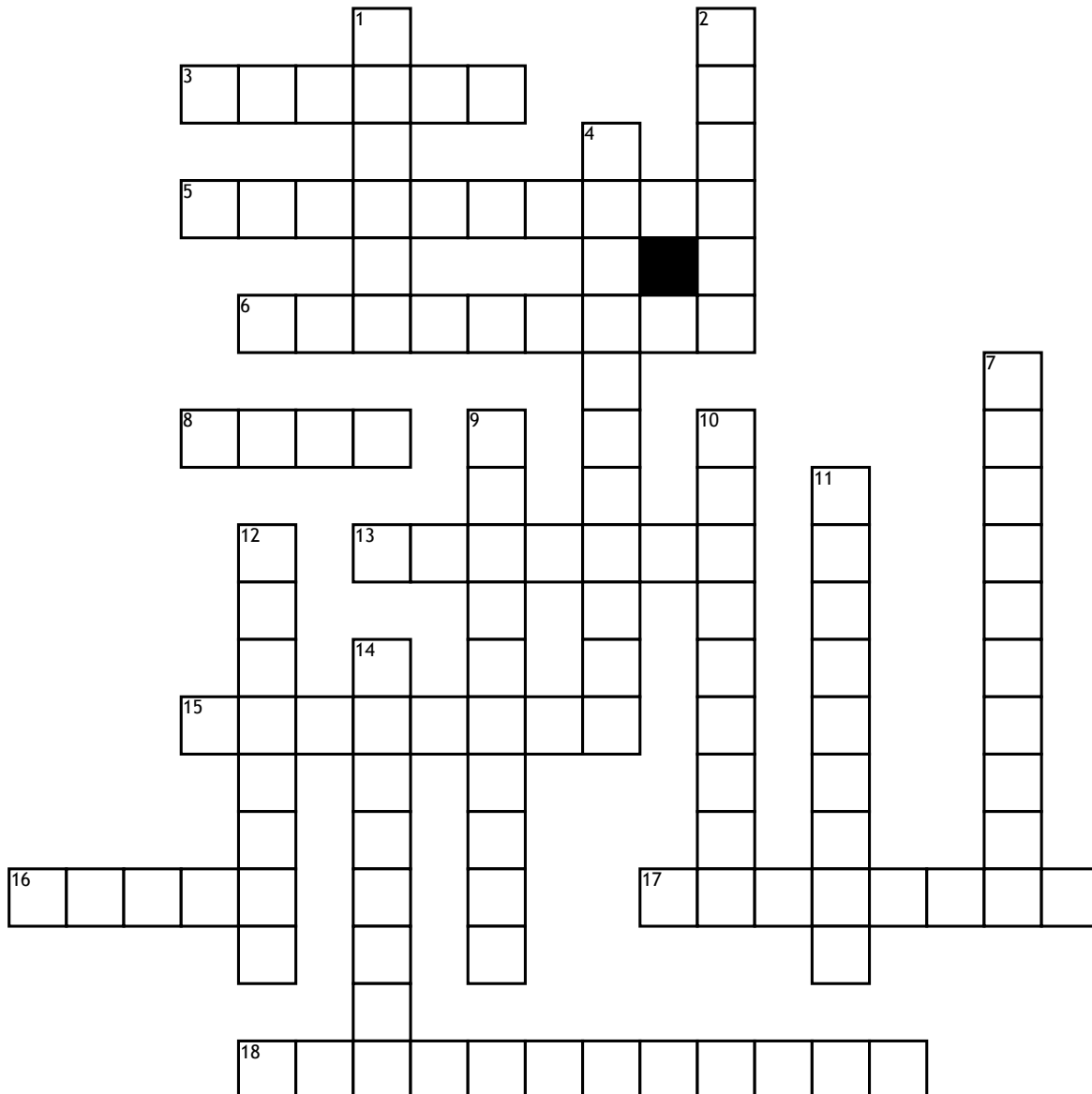


# TOPIC 3 GENETICS



## Across

3. male and female sex cells, sperm and eggs  
 5. Structure inside of a cell nucleus that contains tightly compacted DNA  
 6. outward appearance of an organism, regardless of its genes  
 8. A segment of DNA on a chromosome that codes for a specific trait  
 13. Cells that make up our body that are not sex cells.  
 15. combination of genes in an organism

16. characteristic that is inherited; can be either dominant or recessive  
 17. The recorded ancestry of a person, animal, or family.

18. when there are two different alleles for a trait

## Down

1. an organism's complete set of DNA, including all of its genes  
 2. alternative forms of a gene for each variation of a trait of an organism  
 4. a chain of covalently bonded amino acids.

7. structural components of DNA  
 A building blocks made of a base (one of four chemicals: adenine, thymine, guanine, and cytosine)  
 9. when there are two identical alleles for a trait  
 10. trait of an organism that can be masked by the dominant form of a trait  
 11. a simple organic compound containing both a carboxyl (–COOH) and an amino (–NH<sub>2</sub>) group.  
 12. passing on of characteristics from parents to offspring  
 14. observed trait of an organism that mask the recessive form of a trait