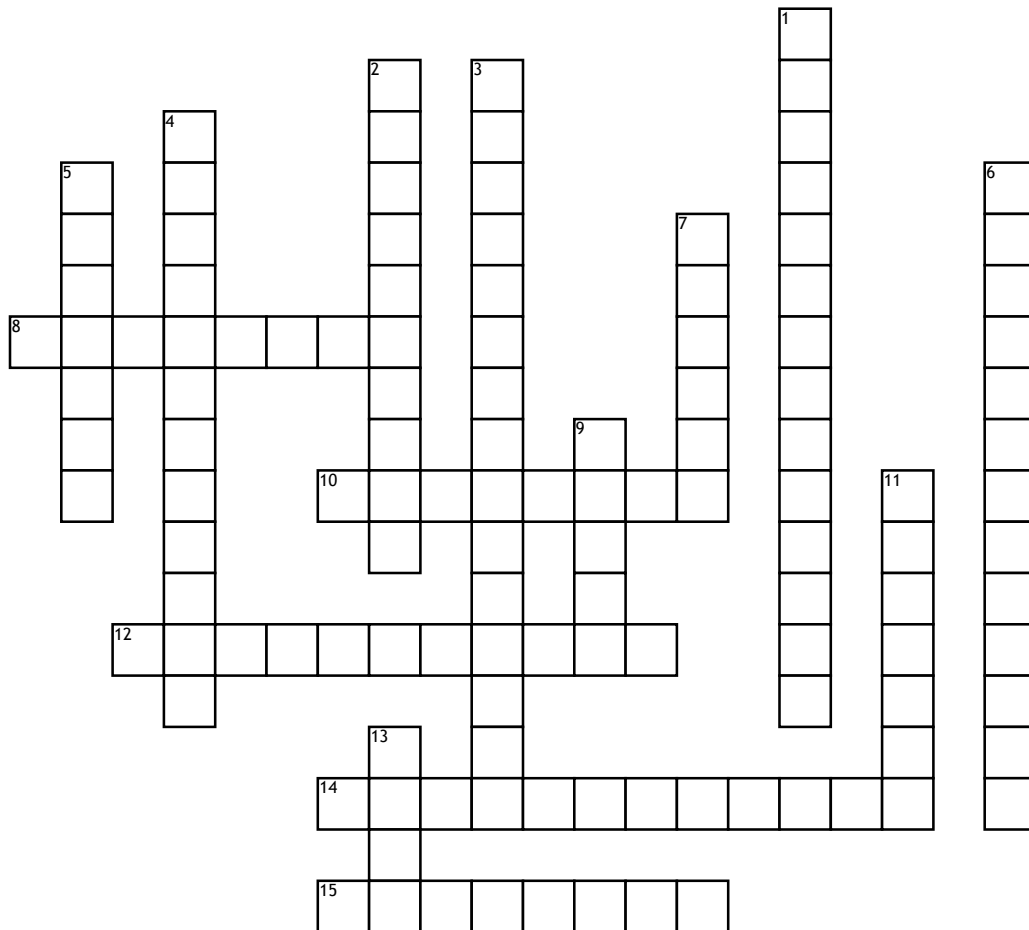


# Genetics: The Science of Heredity



## Across

8. The passing of physical characteristics from parents to offspring  
 10. The offspring of many generations that have the same trait  
 12. You would use \_\_\_\_\_ to predict the results of a particular event  
 14. An organism that has two different alleles for a trait is \_\_\_\_\_  
 15. The scientific study of heredity \_\_\_\_\_

## Down

1. One whose trait always shows up in the organism when the allele is present  
 2. An organism that has two identical alleles for a trait is \_\_\_\_\_  
 3. Is hidden whenever the dominant allele is present  
 4. A chart that shows all the possible combinations of alleles that can result from a genetic cross is a \_\_\_\_\_

5. The different forms of a gene  
 6. When an egg and sperm join and a new organism begins to form  
 7. A \_\_\_\_\_ organism has two different alleles for a trait  
 9. The different forms of a characteristic  
 11. The process by which the number of chromosomes is reduced by half to form sex cells  
 13. The factors that control a trait

## Word Bank

- |               |               |            |                  |                 |
|---------------|---------------|------------|------------------|-----------------|
| gene          | fertilization | meiosis    | recessive allele | heterozygous    |
| genetics      | probability   | homozygous | hybrid           | purebred        |
| Punnet Square | trait         | alleles    | Heredity         | dominant allele |