

**Genetics Challenge**

Name \_\_\_\_\_

1. The abbreviation for deoxyribonucleic acid is 26.
2. A member of a gene pair that determines a specific trait is a(n) 19 25.
3. 37 is known as the Father of Genetics.
4. A 38 31 53 has genes that are different for a trait, such as Tt.
5. The actual gene makeup of an organism is its 18 58 48.
6. 54 51 are physical characteristics of an organism that are passed down from one generation to the next.
7. 13 4 12 is a condition in which neither of the two genes in a gene pair masks the other.
8. 57 20 46 are rod-shaped structures found in the nucleus of every cell in an organism.
9. A 6 trait is expressed when two different genes for the same trait are present.
10. The physical appearance of a trait is called the 14 52 32.
11. Mendel experimented with 34 41 to learn about genetics.
12. A 2 56 35 gene pair consists of two dominant alleles or two recessive alleles.
13. According to the 47 of 50 23 one gene from each gene pair goes to each sex cell.
14. The traits of an organism are controlled by its 15 36.
15. A 42 39 21 40 is a chart used to show the possible gene combinations in across between two organisms.
16. A 8 3 22 gene pair that consists of a dominant allele and a recessive allele.
17. The 44 45 generation is the offspring of the P, or parental, generation.
18. A 29 55 30 is a scientist who studies heredity.
19. A 49 27 5 trait seems to disappear when two different genes for the same trait are present.
20. Organisms inherit genes in pairs, one from each 43 11 7.
21. 24 9 33 is the study of heredity.
22. The 1 of independent 28 16 10 states that each gene pair is inherited independently of the gene pairs for other traits.

**Use the letters from the terms to complete the joke!**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 ?  
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 !