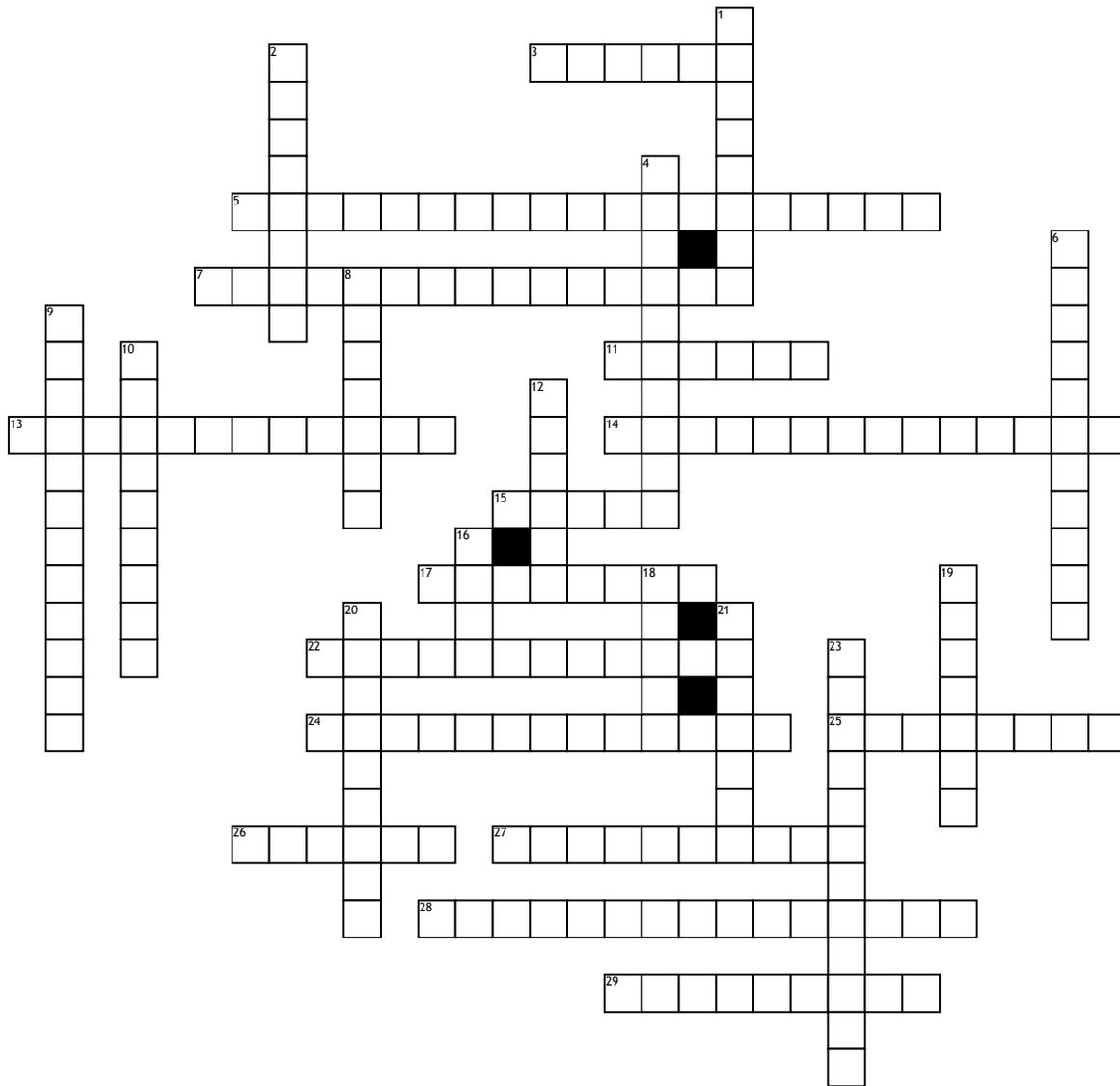# genetics

Across

3. trait passed on

5. refers to a situation where neither allele dominates over the other allele creating a new phenotype

7. the cross of two individuals with two completely different alleles

11. the offspring of two plants or animals of different species or varieties, such as a mule (a hybrid of a donkey and a horse).

13. refers to a pair of genes where one is dominant and one is recessive (ex.Tt)

14. A couple of homologous chromosomes

15. the specific location or position of a gene, DNA sequence, on a chromosome

17. passing down of traits

22. a diagram used to predict an outcome or cross breeding

24. the union of a human egg and sperm

25. makes ups the cell and give someone or something it characteristics

26. a mature haploid male or female germ cell that is able to unite with another of the opposite sex

27. is a packaged and organized structure containing most of the DNA of a living organism

28. the gene that is carried only on the XX or XY genotype

29. a gene that gets dominated over by a dominant gene.

Down

1. the study of genes

2. traits seen when a heterozygous genotype is present.

4. When an individual has two of the same allele, whether dominant or recessive, they are homozygous. (Ex.TT,tt)

6. when someone or something has two traits but only the dominant trait shows

8. a cell having a single set of unpaired chromosomes.

9. first filial generation of offspring of distinctly different parental types.

10. The observable physical characteristic of a living thing

12. a eukaryotic cell formed by a fertilization

16. a locus (or region) of DNA that encodes a functional RNA

18. a distinguishing quality or characteristic

19. (of a cell containing two complete sets of chromosomes, one from each parent.

20. an animal bred from parents of the same breed or variety.

21. type of cell division that reduces the chromosome number by half

23. the offspring produced by interbreeding individuals of an F1 generation