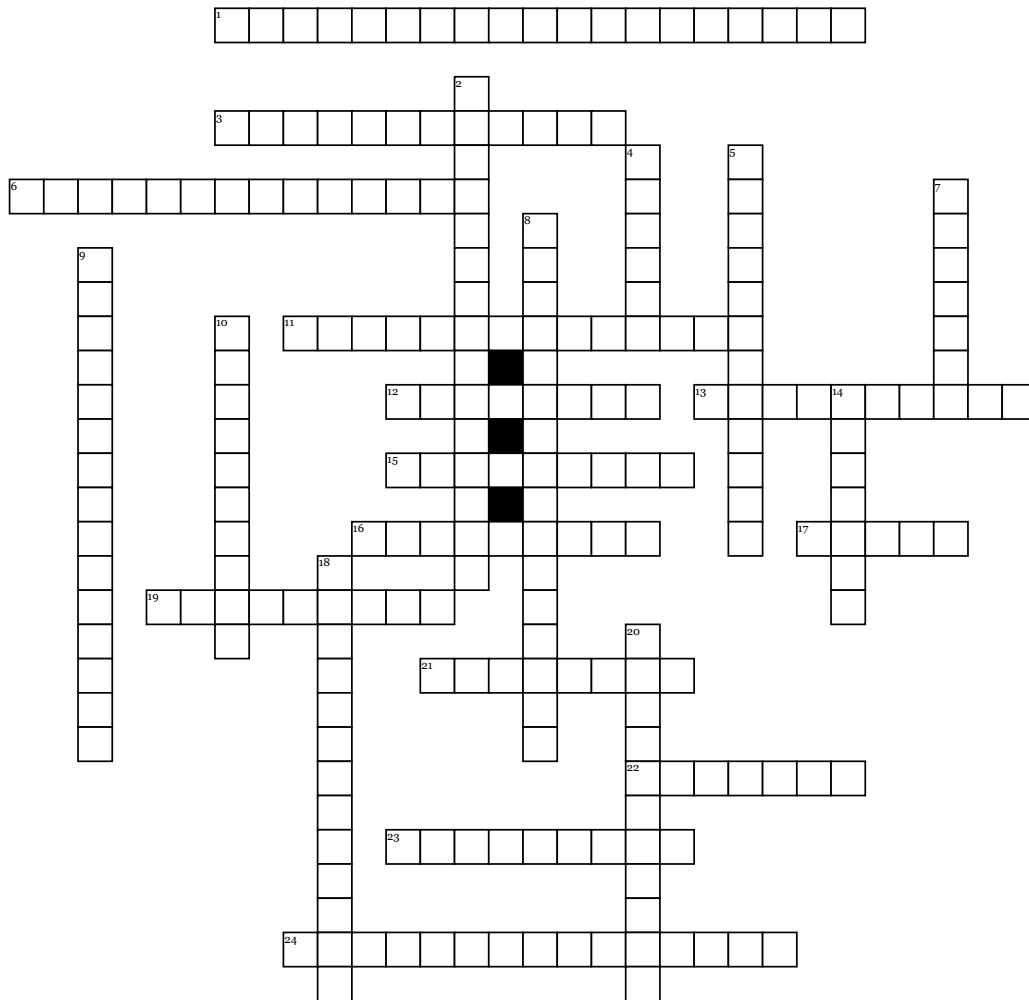


Name: _____

mutations, mutagens, cancer, carcinogens, stem cells, and genetics



Across

1. one allele is not completely dominate over the other
3. wrong bases matched up
6. influenced by several genes
11. influenced by several genes
12. base is removed
13. travel to a new area, divide
15. blend in between
16. base is added
17. genetic material coding for a specific trait
19. differentiate between cell types, regrow and reproduce
21. change of genetic material

22. physical or chemical agent that can change the genetic makeup of an organism
23. can break through boundaries
24. DNA duplicates during interphase, makes a mistake during meiosis

Down

2. trait is determined by more than two alleles
4. cells dividing uncontrollably and can happen in any type of cell
5. a powerful drug that kills all types of cells, to remove cancer
7. variation of genes

8. treatment directly targeting a specific tumor
9. exposure to ionizing and radiation
10. cancer causing agent
14. removal of tumor to prevent it from spreading
18. traits passed down through dominate and recessive genes
20. both alleles are expressed at the same time

Word Bank

| | | | |
|-------------------|------------------|----------------------|------------------|
| codominance | carcinogen | surgery | metastasis |
| multiple alleles | polygenic trait | incomplete dominance | stem cells |
| insertion | alleles | malignant | external factors |
| mendelian gene | chemotherapy | polygenic trait | cancer |
| genes | internal factors | mutation | phenotype |
| radiation therapy | mutagen | deletion | substitution |