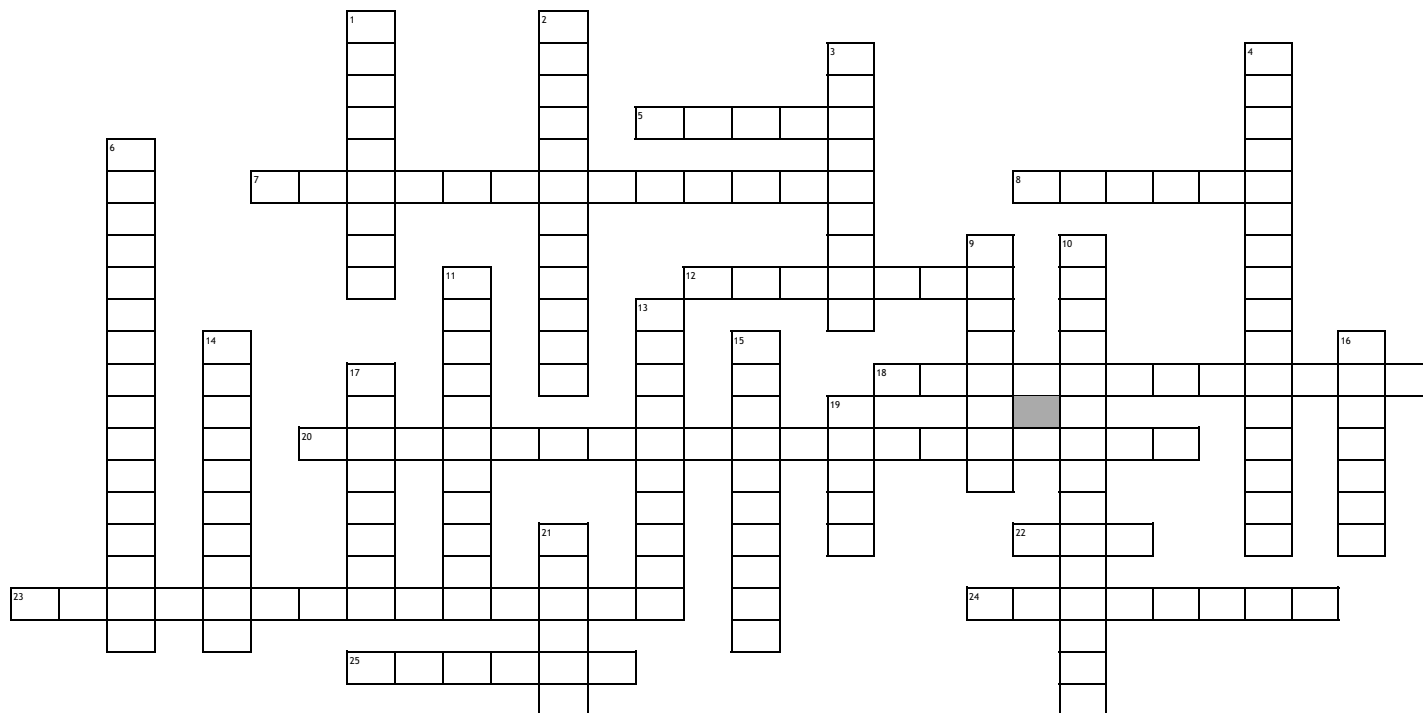


The Elements



Across

5. negatively charged ion
7. this chart shows all of the known elements
8. the columns of the periodic table are called _____
12. an atom with a dense center of positive charge
18. the number of protons in a nucleus of an atom
20. second column of elements is called _____
22. a charged entity
23. abbreviations for chemical elements. Usually consists of the first or first two letters of the element name
24. distinct substance that is composed of the atoms of two or more elements
25. a positive ion

Down

1. atoms contain negative particles called _____
2. first column of elements is called _____
3. appear in the right upper hand of the periodic table. Lack the properties of metals
4. a large collection of elements that spans many vertical columns
6. created by J. J Thomson, concluded that an atom might look something like a _____
9. atoms with the same number of protons but different numbers of neutron
10. the types of atoms and the number of each type in each unit of a compound are expressed by this.
11. developed by Ernest Rutherford in which a small positively charged nucleus is surrounded by planetary electrons
13. eighth column of elements is called _____
14. the sum of the number of neutrons and the number of protons in a given nucleus
15. silicon, germanium, arsenic, antimony, and tellurium are _____
16. slightly bigger than electron and has no charge
17. seventh column of elements is called _____
19. elements made of tiny particles
21. same size as an electron but has a positive charge