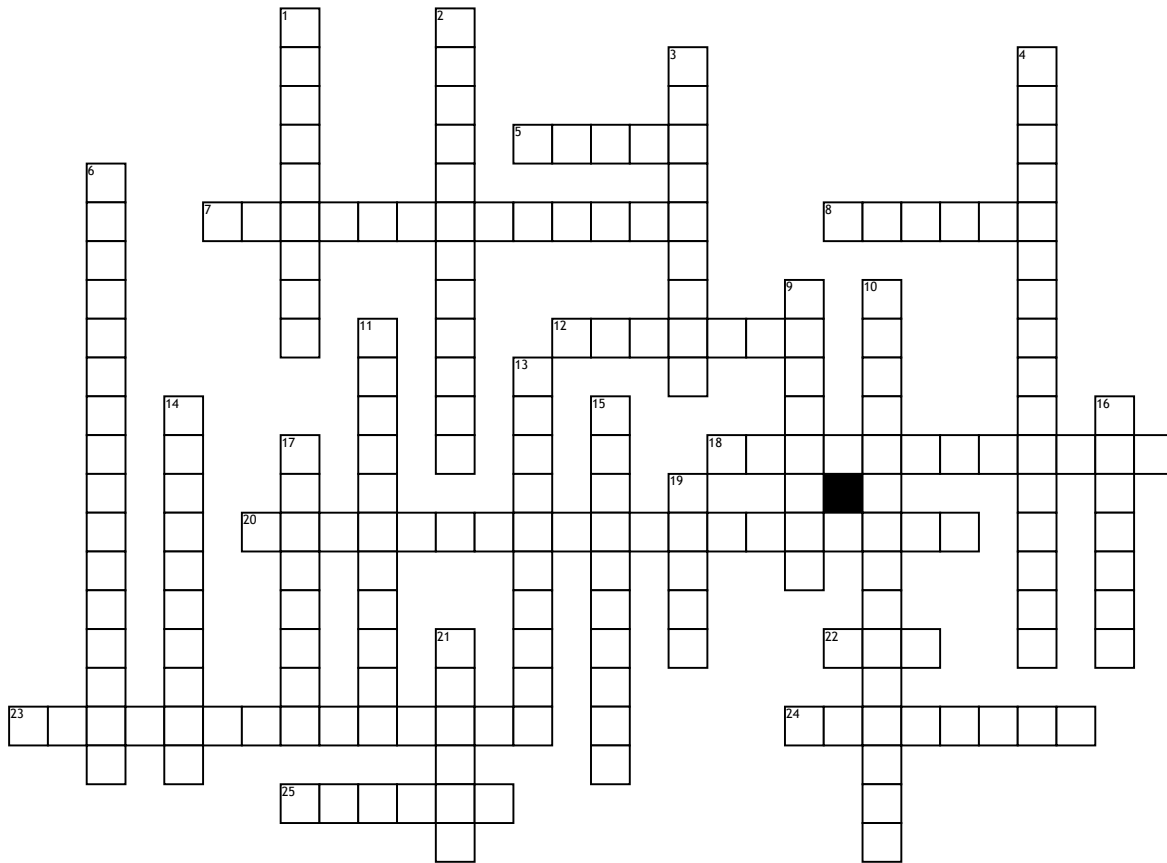


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# 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