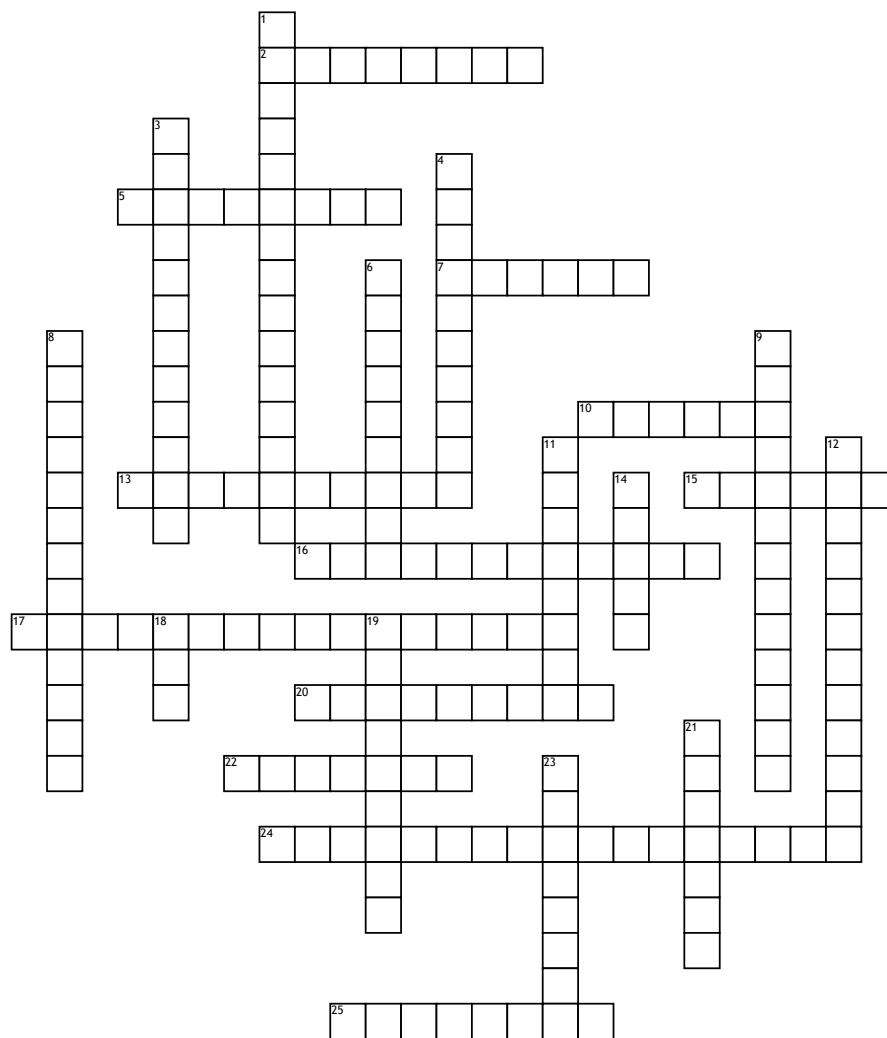


Name: _____

Date: _____

Chemical Interactions 1&2



Across

2. the amount of time it takes for one-half of the atoms in a particular sample to decay
 5. a group of atoms held together by covalent bonds
 7. elements that conduct electricity and heat well and have a shiny appearance
 10. the horizontal row in a periodic table
 13. elements that have properties of both metals and nonmetals
 15. a positively charged particle
 16. the equal sharing allows for electrons to move easily among the atoms of the metal.
 17. the number of protons and neutrons in an atom's nucleus

20. attraction between a positive and negative ion. when one atom gives up an electron to the other atom

22. the center of an atom that consists of protons and neutrons
 24. a covalent bond in which the electrons are shared unequally
 25. atoms of the same element that have a different number of neutrons

Down

1. uses chemical symbols to represent the atoms of the elements and their ratios in a chemical compound
 3. the number of protons in the atom's nucleus
 4. the atoms of an element is the average mass of all the element's isotopes

6. a number written to the right of a chemical symbol and slightly below

8. the name of how the elements are arranged periodically
 9. the number of protons which transform into an atom of a different element
 11. a negatively charged particle
 12. a pair of shared electrons between two atoms
 14. the elements in a column
 18. formed when an atom loses or gains one or more electrons
 19. the elements to the right side of the periodic table are called
 21. an uncharged particle
 23. how likely an element is to undergo a chemical change

Word Bank

atomic mass	isotopes	covalent bond	radioactivity	half-life
proton	electron	group	polar covalent bond	period
nonmetals	molecule	subscript	atomic mass number	neutron
periodic table	nucleus	metalloids	metals	reactive
ion	ionic bond	chemical formula	metallic bond	atomic number