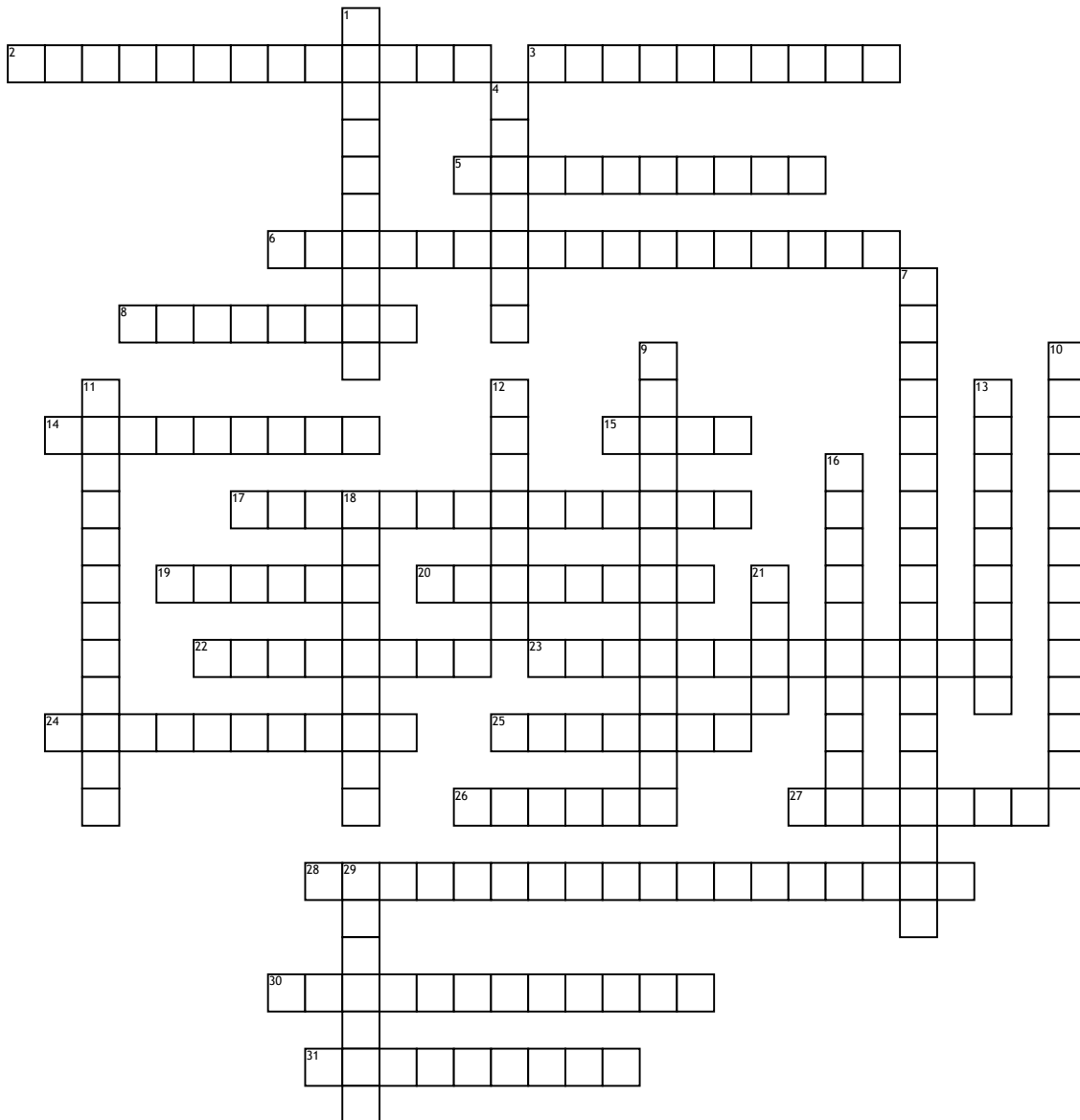


Name: _____

Date: _____

Period: _____

periodic table crossword



Across

2. organizational system for elements
3. gold foil experiment, to discover the existence of an atomic nucleus
5. an atom or a molecule acquires a negative or positive charge
6. measure of the tendency of an atom to attract a bonding pair of electrons.
8. an element or substance that is not a metal.
14. arranged in shells surrounding the nucleus
15. electrons are arranged in circles around the nucleus
17. family group of elements with similar chemical properties
19. father of atomic theory
20. large with no charge

Down

22. gaseous elements helium, neon, argon, krypton, xenon,
23. electrons are when they go around the nucleus of an atom.
24. the total number of protons and neutrons in a nucleus.
25. composed of identical atoms
26. a solid material that is typically hard, shiny, malleable, fusible, and ductile,
27. two or more forms of the same element that contain equal numbers of protons but different numbers of neutrons in their nuclei
28. characteristics of a substance
30. number of protons in the nucleus of an atom,
31. properties are intermediate between those of metals and solid nonmetals.

Down

1. stream of charged particles had electrons in them
4. determines the element identity
7. characteristic that can be observed
9. central idea of the atom composed of protons and neutrons
10. chemical elements measure of the size of its atoms
11. most reactive of all metals
12. central and most important part of an object, movement, or group,
13. made up of two more elements
16. mass of an atom of a chemical element expressed in atomic mass units
18. the creator of the periodic table
21. the basic unit of a chemical element.
29. salt-former and compounds