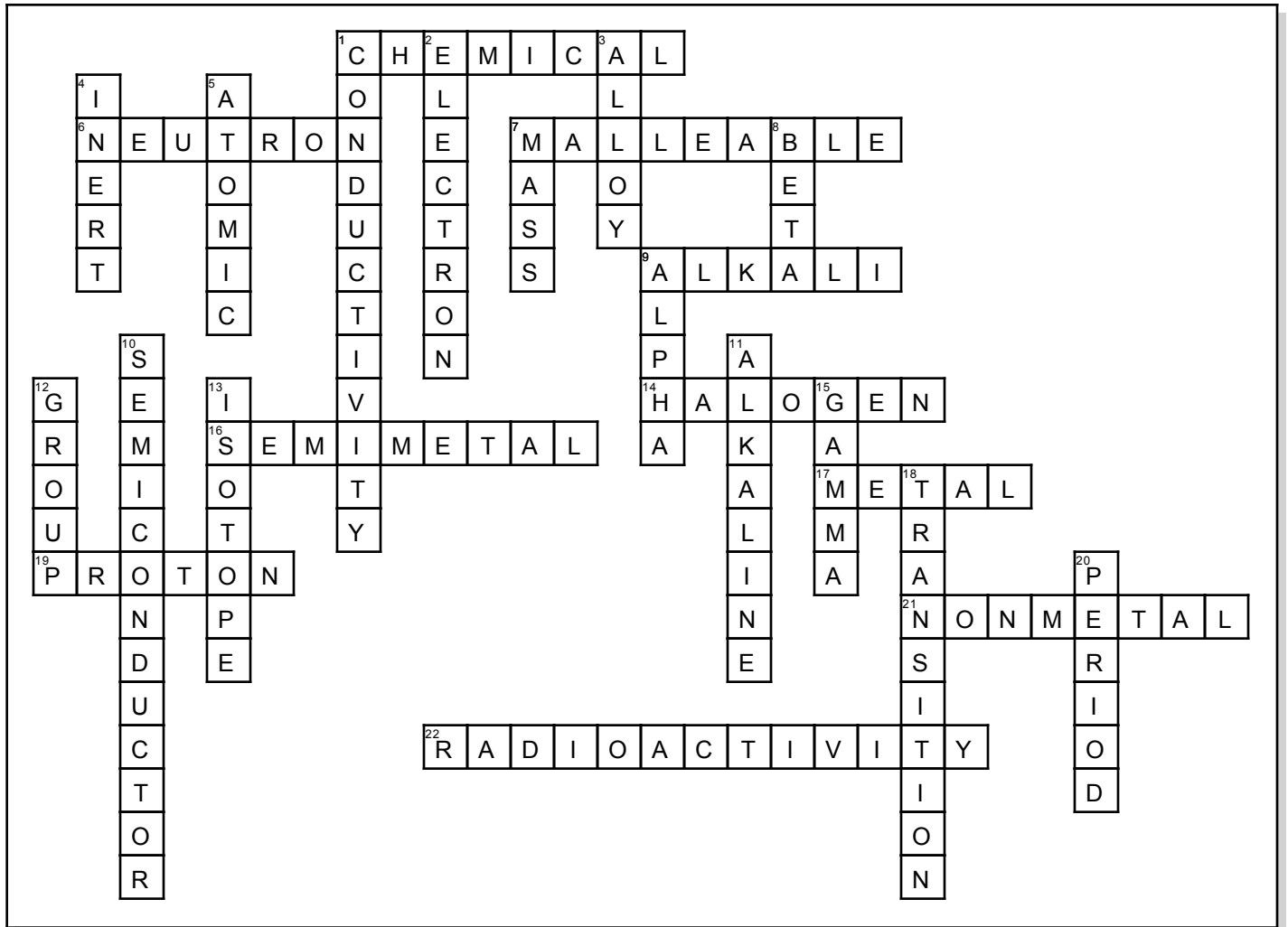


Chapter 4 Elements and the Periodic Table

Instructions: Complete the crossword puzzle. Use the clues to help identify the words.



Across

1. ____ symbol: A one or two letter representation of an element.
6. A small particle in the nucleus of the atom, with no electrical charge.
7. A term used to describe material that can be pounded into shapes.
9. ____ metal: An element in Group 1 of the periodic table.
14. An element found in Group 17 of the periodic table.
16. An element that has some characteristics of both metals and nonmetals.
17. A class of elements characterized by physical properties that include shininess, malleability, ductility, and conductivity.
19. A positively charged particle that is part of an atom's nucleus.
21. An element that lacks most of the properties of a metal.

22. The spontaneous emission of radiation by an unstable atomic nucleus.

Down

1. electrical ____: The ability of an object to transfer electric current.
2. A negatively charged particle that is found outside the nucleus of an atom,
3. A mixture of two or more elements, one of which is a metal.
4. ____ gas: An element found in Group 18 of the periodic table.
5. ____ number: The number of protons in the nucleus of an atom.
7. ____ number: The sum of protons and neutrons in the nucleus of an atom.
8. ____ particle: A fast moving electron that is given off as nuclear radiation.
9. ____ particle: A type of nuclear radiation consisting of two protons and two neutrons.
10. A material that conducts current under certain conditions.
11. ____ earth metal: An element in Group 2 of the periodic table.
12. Elements in the same vertical column of the periodic table; also called a family.
13. An atom with the same number of protons and a different number of neutrons from other atoms of the same element
15. ____ radiation: A type of nuclear radiation made of high energy waves.
18. ____ metal: One of the elements in Groups 3 through 12 of the periodic table.
20. A horizontal row of elements in the periodic table.