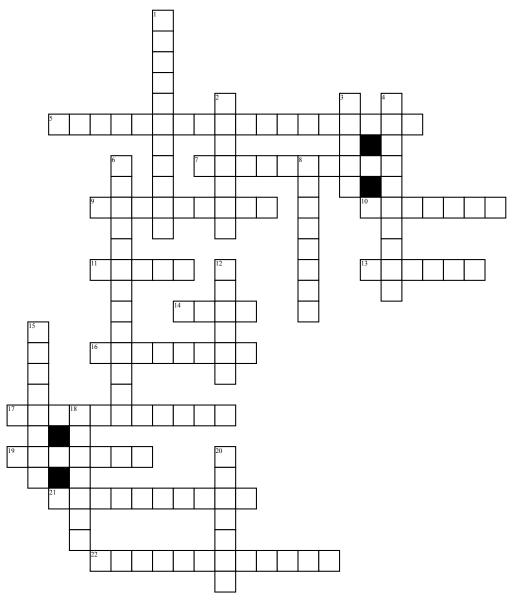
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Atoms and the Periodic Table Vocabulary



Across

- **5.** the elements in Group 2 of the periodic table; they are reactive metals, but are less reactive than alkali metals; their atoms have two electrons in their outer level
- 7. the weighted average of the masses of all he naturally occurring isotopes of an element 9. elements that have two properties of both
- metals and nonmetals; sometimes referred to as semiconductors
- **10.** the tiny, extremely dense, positively charged region in the center of an atom; made up of protons and neutrons
- 11. a column of elements on the periodic table
- **13.** a horizontal row of elements on the periodic table
- 14. the smallest particle into which an element can be divided and still be the same substance
 16. the negatively charged particles found in all atoms; they are involved in the formation of chemical bonds

- 17. the law that states that the chemical and physical properties of elements are periodic functions of their atomic numbers
- 19. the elements in Group 17 of the periodic table; they are very reactive nonmetals, and their atoms have seven electrons in their outer level
- 21. the unreactive elements in Group 18 of the periodic table; their atoms have eight electrons in their outer level
- **22.** the number of protons in the nucleus of an atom

Down

- 1. the elements in Group 1 of the periodic table; they are the most reactive metals, their atoms have one electron in their outer level 2. the particles of the nucleus that have no
- charge
 3. elements that are shiny and are good
 conductors of thermal energy and electric
 current; most of them are malleable and ductile

- **4.** the sum of the protons and neutrons in an atom
- **6.** the regions inside an atom where electrons are likely to be found
- **8.** a pure substance composed of two or more elements that are chemically combined
- 12. the positively charged particles of the nucleus; the number of this particle in a nucleus is the atomic number that determines the identity of a substance
- 15. elements that are dull and are poor conductors of thermal energy and electric current
- **18.** atom that have the same number of protons, but have different numbers of neutrons
- 20. a pure substance that cannot be separated or broken down into simpler substances by physical or chemical means