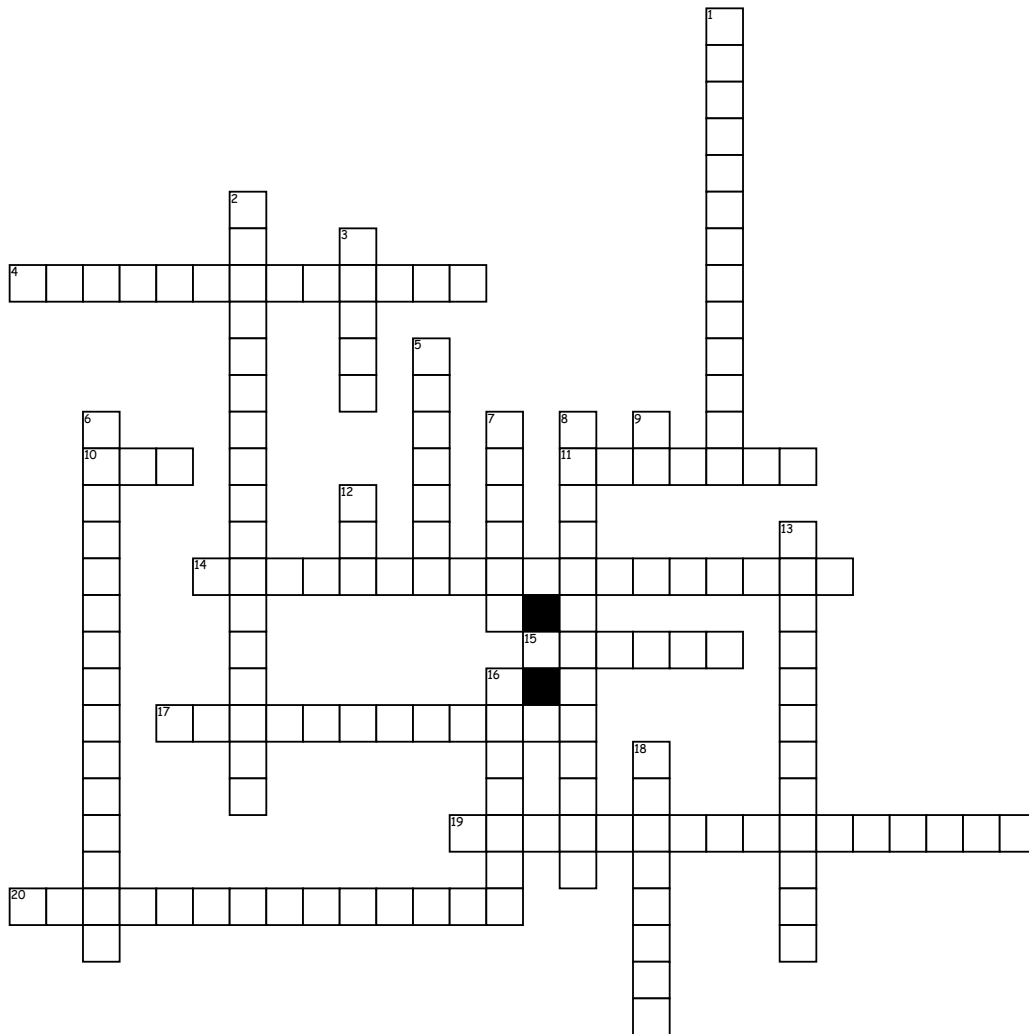


Pure Substances and Mixtures



Across

4. The temperature at which a liquid freezes
 10. Oxygen, and hydrogen
 11. Pure Substance; one kind of atom represented by one or two letter symbol
 14. Solid, liquid, gas, and plasma
 15. composed of molecules that move freely among themselves but do not tend to separate like those of gases; neither gaseous nor solid
 17. The temperature at which the vapor pressure of a liquid is equal to the pressure of the atmosphere on the liquid, equal to 212 degrees f. for water at sea level
 19. Solid to gas

20. A usually irreversible chemical reaction involving the rearrangement of the atoms of one or more substances and a change in their chemical properties or composition, resulting in the formation of at least one new substance

Down

1. Made up of only one atom or molecule
 2. A point of which every neighborhood contains an uncountable number of points of a given set
 3. Having three dimensions (length, breadth, and thickness), as a geometrical body or figure
 5. A mathematical relationship or rule expressed in symbols
 6. Changes affecting the form of a chemical substance, but not its chemical composition. They are used to separate mixtures into their component compounds, but can not usually be used to separate compounds into chemical elements or simpler compounds

7. Physical substance in general, as distinct from mind and spirit; that which occupies space and possesses rest mass especially as distinct from energy

8. A table of the chemical elements arranged in order of atomic number, usually in rows, so that elements with similar atomic structure (and hence similar chemical properties) appear in vertical columns
 9. The gas that makes balloons float
 12. A substance possessing perfect molecular mobility and the property of indefinite expansion, as opposed to a solid or a liquid
 13. The temperature at which a solid substance melts
 16. A substance made by mixing other substances together
 18. Two or more elements chemically combined; represented by chemical formula

Word Bank

Compound
 Freezing point
 boiling point
 condensation point
 Periodic table

He
 Chemical Change
 Liquid
 four states of matter
 Physical changes

h₂O
 Formula
 Solid
 Element
 melting point

Mixture
 Matter
 Gas
 sublimation point
 Pure Substance