

GLOSSARY

A

atom the smallest unit of an element that maintains the properties of that element (10)

C

change of state a physical change of a substance from one state to another (12)

chemical any substance that has a definite composition (6)

chemical change a change in which one or more substances are converted into different substances (13)

chemical property the ability of a substance to undergo a change that transforms it into a different substance (12)

chemical reaction a reaction in which one or more substances are converted into different substances (13)

chemistry the study of the composition, structure, and properties of matter and the changes it undergoes (5)

compound a substance that is made from the atoms of two or more elements that are chemically bonded (11)

E

element a pure substance made of only one kind of atom (10)

extensive property a property that depends on the amount of matter that is present (11)

F

family a vertical column of the periodic table (21)

G

gas the state of matter in which a substance has neither definite volume nor definite shape (12)

group a vertical column of the periodic table (21)

H

heterogeneous not having a uniform composition throughout (16)

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homogeneous having a uniform composition throughout (16)

I

intensive property a property that does not depend on the amount of matter present (11)

L

liquid the state of matter in which the substance has a definite volume but an indefinite shape (12)

M

mass a measure of the amount of matter (10)

matter anything that has mass and takes up space (10)

metal an element that is a good conductor of heat and electricity (22)

metalloid an element that has some characteristics of metals and some characteristics of nonmetals (24)

mixture a blend of two or more kinds of matter, each of which retains its own identity and properties (15)

N

nonmetal an element that is a poor conductor of heat and electricity (23)

P

period a horizontal row of elements in the periodic table (21)

physical change a change in a substance that does not involve a change in the identity of the substance (12)

physical property a characteristic that can be observed or measured without changing the identity of the substance (12)

plasma a high-temperature physical state of matter in which atoms lose their electrons (12)

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product a substance that is formed by a chemical change (13)

pure substance a substance that has a fixed composition and differs from a mixture in that every sample of a given pure substance has exactly the same characteristic properties and composition (17)

● R

reactant a substance that reacts in a chemical change (13)

● S

solid the state of matter in which the substance has definite volume and definite shape (12)