

## GLOSSARY

### A

**alloy** solid solution of two or more metals (151)

**atom** smallest unit of an element (140)

**atomic number** number of protons in the nucleus of an atom (141)

### C

**chemical bond** force that holds together the atoms that make up a compound (148)

**chemical formula** symbols indicating the elements a compound contains and the relative number of each element (150)

**chemical property** characteristic that describes how a substance interacts with other substances to produce different kinds of matter (139)

**compound** a substance that results when the atoms of two or more elements are chemically combined (147)

**covalent bond** bond based on the attraction between atoms that share electrons (150)

**covalent compound** compound formed from atoms that share electrons (150)

### D

**diatomic** consisting of two atoms (147)

### E

**electron** subatomic particle with a negative electrical charge (141)

**electron cloud** region of space around the nucleus of an atom in which electrons may be found (141)

**energy level** arrangement of electrons within the electron cloud of an atom (147)

### G

**gas** physical form of matter that does not have a definite volume or shape (145)

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### I

**ion** atom or group of atoms that carries an electrical charge (149)

**ionic bond** bond in which electrons are transferred from one atom to another (148)

**ionic compound** compound formed through the transfer of electrons (148)

**isotope** atom of an element that has the same atomic number but different atomic mass than another atom of that element (145)

### L

**liquid** physical form of matter with a definite volume but no definite shape (145)

### M

**mass number** sum of the numbers of protons and neutrons in an atom (141)

**matter** substance that takes up space and has mass (139)

**mixture** material that contains two or more substances that are not chemically combined (151)

**molecule** smallest complete unit of a compound (147)

### N

**neutron** subatomic particle with no electrical charge (141)

**nucleus** region in the center of an atom that contains the protons and neutrons (141)

### P

**periodic table** system for classifying the elements (141)

**physical property** characteristic that is observable in a substance without changing the chemical composition of the substance (139)

**proton** subatomic particle with a positive electrical charge (141)

## GLOSSARY

### S

**smog** air pollution formed from a mixture of dust and chemicals (151)

**solid** physical form of matter with a definite shape and volume (145)

**solution** mixture in which one substance is uniformly dispersed in another substance (151)