



### Across

- 2** A small number to the lower right of an element symbol. (9)
- 5** The products of a chemical reaction have different \_\_\_\_\_ from those of the reactants. (10)
- 8** Each element in a compound is represented by a chemical \_\_\_\_\_. (6)
- 10** Two or more atoms of different elements may combine to form a \_\_\_\_\_. (8)

- 12** The number of \_\_\_\_\_ in the atoms of an element may vary. (8)
- 13** Chemical \_\_\_\_\_ can be used to model chemical changes. (9)
- 15** In a chemical equation, these are to the left of the arrow. (9)
- 16** The atoms of an \_\_\_\_\_ have the same number of protons and electrons. (7)

### Down

- 1** The atoms of one element differ from those of another element in the number of \_\_\_\_\_. (7)
- 3** CO<sub>2</sub> is the chemical formula for this compound. (two words) (13)
- 4** Compounds can be represented by chemical \_\_\_\_\_. (8)
- 6** In a chemical equation, this is to the right of the arrow. (7)
- 7** These move in a

cloud around the nucleus of the atom. (9)

- 9** In chemical processes, atoms are rearranged, but matter is \_\_\_\_\_. (9)
- 11** Chemical \_\_\_\_\_ are the forces that hold atoms together to form new substances. (5)
- 14** The basic building blocks of all matter. (5)