



### ACROSS

- 2 A reactant or \_\_\_\_\_ is a substance consumed during a chemical reaction.
- 6 The \_\_\_\_\_ formula of a chemical compound is a simple expression of the relative number of each type of atom in it.
- 7 The law of conservation of \_\_\_\_\_ states that the total amount of matter within a closed system will remain constant, regardless of the processes acting inside the system.
- 9 The law of \_\_\_\_\_ proportions states that a chemical

- compound always contains exactly the same proportion of elements by mass.
- 10 The \_\_\_\_\_ is the SI base unit that measures an amount of substance, equal to Avogadro's number of entities.
- 11 The \_\_\_\_\_ formula of a chemical compound is a graphical representation of the molecular structure showing how the atoms are arranged.
- 13 A chemical \_\_\_\_\_ is a symbolic representation of a chemical reaction.
- 16 A chemical \_\_\_\_\_ is a concise way of expressing information about the atoms that constitute a particular chemical compound.
- 17 Gram \_\_\_\_\_ mass is the mass in grams of one mole of atoms in an element.
- 18 \_\_\_\_\_ is the amount of product obtained in a chemical reaction.

### DOWN

- 1 The \_\_\_\_\_ reagent is the chemical that determines how far a reaction would go because the chemical in question is the reagent that would get completely used up, causing the reaction to stop.
- 3 The \_\_\_\_\_ is a measurement unit used in chemistry and the biological sciences, which measures of a substance's ability to combine with other substances, an expression frequently used in the context of normality.
- 4 \_\_\_\_\_'s number is the number of entities in one mole
- 5 Although the definition is more formal now, the \_\_\_\_\_ was originally defined as the absolute weight of a volume of pure water equal to the cube of the hundredth part of a metre, and at the temperature of melting ice.
- 8 \_\_\_\_\_ is the calculation of quantitative relationships of the reactants and products in chemical reactions.
- 10 The \_\_\_\_\_ mass of a substance is the mass of one molecule of that substance, relative to the unified atomic mass unit (equal to 1/12 the mass of one atom of carbon-12).
- 12 A chemical \_\_\_\_\_ is a process that results in the interconversion of chemical substances.
- 14 The \_\_\_\_\_ mass is the mass of an atom at rest, most often expressed in unified amu.
- 15 A \_\_\_\_\_ is a substance that forms as a result of a chemical reaction.

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