

# Chemistry Chapter 4

## Balancing chemical Equations

### Chemical Reactions

- Reactions involve chemical changes in matter resulting in new substances
- Reactions involve rearrangement and exchange of atoms to produce new molecules
  - Elements are not transmuted during a reaction

### Chemical Equations



- $\text{CH}_4$  and  $\text{O}_2$  are the reactants, and  $\text{CO}_2$  and  $\text{H}_2\text{O}$  are the products
- the (g) after the formulas tells us the state of the chemical
- the number in front of each substance tells us the numbers of those molecules in the reaction
  - called the **coefficients**

### Balancing chemical equations

- Step 1: Determine the state of the reactants and products in the chemical reaction
- Step 2: Write the unbalanced chemical equation
- Step 3: Balance the number of atoms of each element in the reactant and product side, starting with the most complicated molecule

### Balancing a Hypothetical Chemical Equation



- In this hypothetical reaction, C and D are the reactants, and X and Y are the products
- The number in front of each substance tells us the numbers of those molecules of reactants and products in the reaction
- So, if you react exactly 3 moles of C with 2 moles of D, then you will produce 5 moles of X and 2 moles of Y.
- If you reacted 6 moles of C with 4 moles of D, you will produce 10 moles of X and 4 moles of Y.

### Example: Balancing chemical equations

- Glucose ( $\text{C}_6\text{H}_{12}\text{O}_6$ ) reacts with Oxygen gas to produce gaseous carbon dioxide and water vapor



Reactants

6 C

12 H

8 O

Products

1 C

2 H

3 O

# Modern Chemistry Chapter 4 Notes

**Giovanni Ciccotti, Daan Frenkel, Ian  
Ranald McDonald**



## Modern Chemistry Chapter 4 Notes:

**The Development of Modern Chemistry** Aaron J. Ihde, 1984-01-01 From ancient Greek theory to the explosive discoveries of the 20th century this authoritative history shows how major chemists their discoveries and political economic and social developments transformed chemistry into a modern science 209 illustrations 14 tables Bibliographies Indices Appendices

**Nature** Sir Norman Lockyer, 1929 Modern Alchemy Mark Morrisson, 2007-04-19 Alchemists are generally held to be the quirky forefathers of science blending occultism with metaphysical pursuits Although many were intelligent and well intentioned thinkers the oft cited goals of alchemy paint these antiquated experiments as wizardry not scientific investigation Whether seeking to produce a miraculous panacea or struggling to transmute lead into gold the alchemists radical goals held little relevance to consequent scientific pursuits Thus the temptation is to view the transition from alchemy to modern science as one that discarded fantastic ideas about philosophers stones and magic potions in exchange for modest yet steady results It has been less noted however that the birth of atomic science actually coincided with an efflorescence of occultism and esoteric religion that attached deep significance to questions about the nature of matter and energy Mark Morrisson challenges the widespread dismissal of alchemy as a largely insignificant historical footnote to science by prying into the revival of alchemy and its influence on the emerging subatomic sciences of the late 19th and early 20th centuries Morrisson demonstrates its surprising influence on the emerging subatomic sciences of the late 19th and early 20th centuries Specifically Morrisson examines the resurfacing of occult circles during this time period and how their interest in alchemical tropes had a substantial and traceable impact upon the science of the day Modern Alchemy chronicles several encounters between occult conceptions of alchemy and the new science describing how academic chemists inspired by the alchemy revival attempted to transmute the elements to make gold Examining scientists publications correspondence talks and laboratory notebooks as well as the writings of occultists alchemical tomes and science fiction stories he argues that during the birth of modern nuclear physics the trajectories of science and occultism so often considered antithetical briefly merged

**Modern Language Notes**, 1898 Heinrich Caro and the Creation of Modern Chemical Industry Carsten Reinhardt, Anthony S. Travis, 2000-10-31 Heinrich Caro 1834 1910 was the inventor of new chemical processes that in the two decades commencing in 1869 enabled BASF of Ludwigshafen Germany to take first place among manufacturers of synthetic dyestuffs The cornerstones of Caro s success were his early training as calico cotton printer in Germany and his employment at a chemical firm in Manchester England Caro was a creative research chemist a highly knowledgeable patent specialist and expert witness and a brilliant manager of science based chemical technology This first full length scientific biography of Heinrich Caro delineates his role in the emergence of the industrial research laboratory the forging of links between academic and industrial chemistry and the development of modern patent law Major chemical topics include the rise of classical organic chemistry collaboration with Adolf Baeyer artificial alizarin and indigo aniline dyes and other coal tar

products particularly intermediates      **From Classical to Modern Chemistry** Peter J. T. Morris, Peter John Turnbull  
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