

1 • Chemistry Foundations

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Units and Measurements

a. SI Units (see Appendix 1 of textbook)

Mass (kg) – the property that resists acceleration
 Length (m) – the distance between two points

SI Unit	Symbol	Definition
Length	meter	m
Mass	kilogram	kg
Time	second	s
Temperature	kelvin	K
Amount of Substance	mole	mol

Derived Units – units for other physical quantities that are combinations of SI units

Example: What is the mass of a 100 kg person?
 Answer: 100 kg

$$\text{mass} = \frac{\text{weight}}{g} = \frac{1000 \text{ N}}{9.8 \text{ m/s}^2} = 102 \text{ kg}$$

Example: Density of aluminum is 2.70 g/cm³. What is the mass of a 100 cm³ block of aluminum?

Answer: 270 g

$$\text{mass} = \text{density} \times \text{volume}$$

$$m = 2.70 \text{ g/cm}^3 \times 100 \text{ cm}^3 = 270 \text{ g}$$

Example: Specific heat of water is 4.18 J/g°C. How much heat is required to raise the temperature of 100 g of water from 20°C to 30°C?

$$\text{heat} = \text{mass} \times \text{specific heat} \times \Delta T = 100 \text{ g} \times 4.18 \text{ J/g°C} \times 10 \text{ °C} = 4180 \text{ J}$$

b. Atomic Structure – Understand the structure of atoms. The atomic number is the number of protons in the nucleus. The mass number is the sum of protons and neutrons in the nucleus.

Element	Atomic Number (Z)	Mass Number (A)
Hydrogen	1	1
Helium	2	4
Lithium	3	7
Boron	5	11
Carbon	6	12
Nitrogen	7	14
Oxygen	8	16
Fluorine	9	19
Neon	10	20
Sodium	11	23
Magnesium	12	24
Aluminum	13	27
Silicon	14	28
Phosphorus	15	31
Sulfur	16	32
Chlorine	17	35
Argon	18	36

Example: What is the mass of 1 mole of H₂?

$$\text{mass} = \frac{\text{molar mass}}{\text{mole}} = \frac{2.02 \text{ g/mol}}{1 \text{ mol}} = 2.02 \text{ g}$$

Example: What is the mass of 1 mole of H₂O?

$$\text{mass} = \frac{\text{molar mass}}{\text{mole}} = \frac{18.02 \text{ g/mol}}{1 \text{ mol}} = 18.02 \text{ g}$$

Example: What is the mass of 1 mole of H₂SO₄?

$$\text{mass} = \frac{\text{molar mass}}{\text{mole}} = \frac{98.08 \text{ g/mol}}{1 \text{ mol}} = 98.08 \text{ g}$$

Example: A sample of 100 g of H₂O is heated from 20°C to 30°C. How much heat is required?

Answers South Pasadena Chemistry

M Lipman



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Principe,2007-09-14 The eighteenth century has long been considered critical for the development of modern chemistry yet many crucial features of the period remain largely unknown or unexplored for general accounts often built around Lavoisier have remained quite selective This volume presents new approaches and topics in an attempt to build a richer fuller more complex view of chemical work during the period Themes include late phase alchemy professionalization chemical education and the links and relations between chemistry and pharmacy medicine agriculture and geology **Millikan's School: A**

History of the California Institute of Technology Judith Goodstein,2020-10-19 In November 1891 wealthy former abolitionist and Chicago politician Amos Throop founded a thoroughly undistinguished small college in Pasadena California which he named after himself Millikan s School is the history of this institution that stands today at the pinnacle of world academics with 300 full time faculty nearly 1 000 undergraduate 1 250 graduate students and 39 Caltech and alumni Nobel Prize recipients Although Amos Throop the name of the college was changed to Caltech in 1920 could not have realized the importance of geography the fact that Pasadena lay at the foot of Mount Wilson was central to its success astronomer George Ellery Hale built his telescope there in 1902 the finest at that time in the world Later Hale joined the board of trustees of the struggling school and persuaded Arthur Amos Noyes former president of MIT and the nation s leading physical chemist to join him in Pasadena The third member of Caltech s founding troika was renowned physicist Robert A Millikan from the University of Chicago The dedication of Caltech in 1920 and the proclamation of what it stood for in science and education set the stage for Millikan who functioned as the school s president to bring the best and the brightest from all over the world Theodore von K r m n in aeronautics Thomas Hunt Morgan in biology Paul Sophus Epstein in physics Beno Gutenberg in seismology Linus Pauling in chemistry to Pasadena to work in an ever larger number of areas in science and technology The book also covers the funding planning and construction of the 200 inch telescope on Palomar Mountain Willy Fowler s work in nuclear astrophysics and the wartime rocket experiments that grew into the Jet Propulsion Laboratory JPL today the world

leader in deep space exploration Millikan's School presents an interesting and thoroughly reliable account of the astonishing change over a period of a few years of a small technical school in Pasadena California into one of the world's leading scientific institutions Linus Pauling In Millikan's School Judith Goodstein tells the remarkable story of the rise of Caltech She details how Millikan aided by Hale and Arthur Amos Noyes America's leading physical chemist and another of Hale's inspired acquisitions took a former trade school and forged from it a grandiose university among the orange groves It would be impossible while reading Goodstein's lively account not to be impressed by the energy drive and boundless enthusiasm of men like Millikan Hale and Noyes who had the bare faced audacity to set about building an institute to rival the cream of the universities of Europe and America Marcus Chown New Scientist Goodstein's story is first and foremost the tale of three men the astronomer George Ellery Hale the chemist Alfred Noyes and the physicist Robert Millikan It is the story of their attempts to transform an undistinguished little school founded in 1891 into a world class scientific establishment A useful book Tony Rothman Science In Millikan's School the story of Throop University's transformation into Caltech is told with precision Judith Goodstein's history offers a quick tour of the landmarks of science in the mid 20th Century and a glance at how pure science puts itself at the service of government commerce and the military Goodstein approaches her subject with a healthy sense of humor and an acute sense of academic politics She tells a wonderful story about how Caltech lost to Princeton in a bidding war over the services of Albert Einstein for example To her credit Goodstein asks the hard question What is the best way to do science Millikan's School offers enough hard data to enable us to come to our own conclusions Jonathan Kirsch Los Angeles Times A cleanly written scientifically well informed account of one of the world's foremost institutions for science and technology Ed Regis Nature Relying on archival material published secondary sources and interviews with institute scientists Goodstein presents a highly readable account of Caltech's beginnings at the turn of the century substantive informative and a good read Rebecca S Lowen Technology and Culture As a history of science this book is well crafted Orderly in its flow it is not only a tribute to Millikan but also places him within the development of physics as a field Andrew Rolle Southern California Quarterly A fascinating history that speaks to issues far larger than Cal Tech itself This well written and honest account witness the many cited instances of anti-Semitism in the scientific world is both a good read and a sobering reminder that big science and top schools are not brought by storks Carroll Pursell History of Education Quarterly The author focuses on the personalities and the research fields of the principal scientific figures The emphasis on personalities and capsule surveys of relevant scientific fields produce a book that can be apprehended by a wide audience Roger Geiger Isis This chronicle offers glimpses of the passion and drive that have motivated a roster of distinguished scientists Publishers Weekly A lively tale Goodstein's individual profiles are lean and candid her background on subjects as diverse as nuclear astrophysics seismology aeronautical design quantum mechanics and rocket fuel are crisp and understandable With a light style and meticulous documentation Goodstein has produced a tale worthy of her subject

Marshall Robinson Foundation News A distinguished and uniquely American institution has found its chronicler and its chronicle in Judith Goodstein's thorough but compact story of Millikan's School The emergence of Caltech as a powerhouse of science and engineering and a makeweight in the technological advancement of 20th century industry is both beautifully and reliably presented Harry Woolf Institute for Advanced Study Princeton University **Last Call** Daniel Okrent, 2010-05-11 A brilliant authoritative and fascinating history of America's most puzzling era the years 1920 to 1933 when the U S Constitution was amended to restrict one of America's favorite pastimes drinking alcoholic beverages From its start America has been awash in drink The sailing vessel that brought John Winthrop to the shores of the New World in 1630 carried more beer than water By the 1820s liquor flowed so plentifully it was cheaper than tea That Americans would ever agree to relinquish their booze was as improbable as it was astonishing Yet we did and Last Call is Daniel Okrent's dazzling explanation of why we did it what life under Prohibition was like and how such an unprecedented degree of government interference in the private lives of Americans changed the country forever Writing with both wit and historical acuity Okrent reveals how Prohibition marked a confluence of diverse forces the growing political power of the women's suffrage movement which allied itself with the antiliquor campaign the fear of small town native stock Protestants that they were losing control of their country to the immigrants of the large cities the anti German sentiment stoked by World War I and a variety of other unlikely factors ranging from the rise of the automobile to the advent of the income tax Through it all Americans kept drinking going to remarkably creative lengths to smuggle sell conceal and convivially and sometimes fatally imbibe their favorite intoxicants Last Call is peopled with vivid characters of an astonishing variety Susan B Anthony and Billy Sunday William Jennings Bryan and bootlegger Sam Bronfman Pierre S du Pont and H L Mencken Meyer Lansky and the incredible if long forgotten federal official Mabel Walker Willebrandt who throughout the twenties was the most powerful woman in the country Perhaps most surprising of all is Okrent's account of Joseph P Kennedy's legendary and long misunderstood role in the liquor business It's a book rich with stories from nearly all parts of the country Okrent's narrative runs through smoky Manhattan speakeasies where relations between the sexes were changed forever California vineyards busily producing sacramental wine New England fishing communities that gave up fishing for the more lucrative rum running business and in Washington the halls of Congress itself where politicians who had voted for Prohibition drank openly and without apology Last Call is capacious meticulous and thrillingly told It stands as the most complete history of Prohibition ever written and confirms Daniel Okrent's rank as a major American writer Agricultural Research ,1989 NSF Authorization United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space, 1986

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