Physics

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(Chapter 1) (Units and Measurement) (Exercises)
(Class 11)

Question 1.1:
Fill in the blanks
(a) The volume of a cube of side 1 cm is equal to .....m^3
(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to . . . $(mm)^2$
(c) A vehicle moving with a speed of 18 km h^{-1} covers.....m in 1 s
(d) The relative density of lead is 11.3. Its density is . . . . g cm^{-3} or ....kg m^{-3}.

Answer 1.1:
(a) $1\ cm = \frac{1}{100}$
Volume of the cube = 1 cm^3

But, $1\ cm^3 = 1\ cm \times 1\ cm \times 1\ cm = \left(\frac{1}{100}\right) m \times \left(\frac{1}{100}\right) m \times \left(\frac{1}{100}\right) m$

$\therefore 1\ cm^3 = 10^{-6}\ m^3$
Hence, the volume of a cube of side 1 cm is equal to 10^{-6} m^3.
(b) The total surface area of a cylinder of radius r and height h is
$S = 2\pi r(r + h)$. Given that, $r = 2\ cm = 2 \times 1\ cm = 2 \times 10\ mm = 20\ mm$
$h = 10\ cm = 10 \times 10\ mm = 100\ mm = 15072 = 1.5 \times 10^4\ mm^2$
$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$
(c) Using the conversion,
$1\ km/h = \frac{5}{18}\ m/s$

$18\ km/h = 18 \times \frac{5}{18} = 5\ m/s$

Therefore, distance can be obtained using the relation: Distance = Speed × Time = $5 \times 1 = 5$ m
Hence, the vehicle covers 5 m in 1 s.
(d) Relative density of a substance is given by the relation,

$$\text{Relative density} = \frac{\text{Density of substance}}{\text{Density of water}}$$

Density of water = 1 g/cm^3
Density of lead = Relative density of lead × Density of water = $11.3 \times 1 = 11.3\ g/cm^3$
Again, $1g = \frac{1}{100}kg$
$1\ cm^3 = 10^{-6}\ m^3$
$1\ g/cm^3 = \frac{10^{-3}}{10^{-6}}\ kg/m^3 = 10^3\ kg/m^3$
$\therefore 11.3\ g/cm^3 = 11.3 \times 10^3\ kg/m^3$

Question 1.2:
Fill in the blanks by suitable conversion of units
(a) 1 kg m^2 s^{-2} = ... g cm^2 s^{-2}
(b) 1 m = ...ly
(c) 3.0 m s^{-2} = ... km h^{-2}
(d) $G = 6.67 \times 10^{-11}\ N\ m^2\ (kg)^{-2}$ = ... $(cm)^3$ s^{-2} g^{-1}.

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Katy Price

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Loving Faster Than Light Katy Price,2012-11-12 This is an insightful examination of one of the essential problems of the history of science how does elite esoteric knowledge get read used modified and owned by those outside the professional scientific community Price focuses on one of the defining scientific ideas of the 20th century and skillfully demonstrates the many genres and styles through which it was adopted and changed **Cosmology** John O'Neill,1923 Notes on books Longmans, Green and co,1885 Notes on Applied Science ,1957 *The Cumulative Book Index* ,1913 **"The" English Catalogue of Books** ,1881 **The popular educator** Popular educator,1880 Subject Index of Modern Works Added to the Library of B.M. in Years 1880-1885 ... ,1886 The English Catalogue of Books Sampson Low,1891 Volumes for 1898 1968 include a directory of publishers **The Science of Basic L-Rod Dowsing** Richard Warburton,2025-02-20 Dowsing has been a known practice for at least 500 years with some evidence suggesting it may have been used for millennia Historically dowsers used a forked Y shaped stick following the movement toward the presence of water minerals or other objects located beneath the ground Today the most common tool used is a wire bent into the shape of an L leading to the term L rod dowsing Only a few of dowsing s many forms appear to have a clear physical basis such that some physical phenomenon in the environment causes a physiological response in the body Despite the many studies performed in the past none have resulted in a comprehensive testable explanation for how dowsing works This book reviews and critiques some of the common explanations for L rod field dowsing describes an investigation into various aspects of L rod dowsing and proposes a mechanism which explains the physical observations Building on the prior scientific studies it presents a theory based on well known scientific principles for the physical component of dowsing Science and Technology in World History, Volume 3 David Deming,2014-01-10 This installment in a series on science and technology in world history begins in the fourteenth century explaining the origin and nature of scientific methodology and the relation of science to religion philosophy military history economics and technology Specific topics covered include the Black Death the Little Ice Age the invention of the printing press Martin Luther and the Reformation the birth of modern medicine the Copernican Revolution Galileo Kepler Isaac Newton and the Scientific Revolution *Government Gazette* ,1890 *Scientific American* ,1898

Linus Pauling in His Own Words Barbara Marinacci,1995 Two time Nobel Prize winner Linus Pauling was known for his scientific discoveries and of his breadth of knowledge which spanned disciplines The author who knew Pauling well has chosen from among more than 60 years of essays letters articles books speeches and interviews As Pauling himself says in the Introduction This book will take me as close to writing my memoirs or autobiography as I shall ever get Popular Science News ,1892 **Science & Public Policy** ,1986 **The Saturday Review of Politics, Literature, Science and Art** ,1872 **English Mechanic and Mirror of Science and Art** ,1916 **Classed Subject Catalog** Engineering Societies Library,1963 **The Westminster Review** ,1881

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