4.2 Information sheets - Paper 1 (Physics)

DATA FOR PHYSICAL SCIENCES GRADE 12 PAPER 1 (PHYSICS)

TABLE 1: PHYSICAL CONSTANTS

NAME	SYMBOL	VALUE
Acceleration due to gravity	0	9.8 m-s ⁻²
Universal gravitational constant	G	6.67 x 1011 N-m1 kg1
Speed of light in a vacuum	o o	3,0 x 10° m-s 1
Planck's constant	h	6.63 × 10 ¹⁴ J·s
Coulomb's constant	le ;	9,0 x 10° N·m²-C°
Charge on electron		-1,6 x 10 ¹⁰ C
Electron mass.	me	9,11 × 10 ¹¹ kg
Mass of the Earth	M	5,98 x 10 ²⁴ kg
Radius of the Earth	Pie.	6,38 x 10° m

TABLE 2: FORMULAE

MOTION

$\mathbf{v}_1 = \mathbf{v}_1 + \mathbf{a}.52$	$\Delta x = v_{\lambda} M + \frac{1}{2} a_{\lambda} M^{2} \text{ OPL} \Delta y = v_{\lambda} M + \frac{1}{2} a_{\lambda} M^{2}$		
$\mathbf{v}_{i}{}^{g}=\mathbf{v}_{i}{}^{g}+\mathbf{2aAx}.\mathbf{OR}.\mathbf{v}_{i}{}^{g}=\mathbf{v}_{i}{}^{g}+\mathbf{2aAy}.$	$\nabla x = \left(\frac{S}{A^2 + A^2}\right) \nabla Y \cdot O(x) \nabla A = \left(\frac{S}{A^2 + A^2}\right) \nabla A$		

FORCE

F _{run} – m.a	p-mv	
f, "ar = pc,N	t, - p., N	
$F_{\text{out}} \Delta t = \Delta p$ $\Delta p = m v_c = m v_c$	w-mg	
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{t^2}$	g - GM G - GM	

WORK, ENERGY AND POWER

W+FAxces#	U=mgh OR Ep=mgh
$K = \frac{1}{9}mv^2$ OR $E_s = \frac{1}{9}mv^2$	$W_{\rm int} = \Delta K$ OR $W_{\rm int} = \Delta E_a$
2	AK = K, - K, OR AE, = E, - E,
$W_{\rm sc} = \Delta K + \Delta U OR W_{\rm sc} = \Delta E_{\rm s} + \Delta E_{\rm b}$	P-W
P _{nn} = Fv _{nn}	

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Liying Dong

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Junior Libraries ,1958 Library Journal ,1958 Abstract Bulletin of the Institute of Paper Chemistry ,1988-04 The Boy Crisis Warren Farrell, John Gray, 2018-03-13 What is the boy crisis It's a crisis of education Worldwide boys are 50 percent less likely than girls to meet basic proficiency in reading math and science It's a crisis of mental health ADHD is on the rise And as boys become young men their suicide rates go from equal to girls to six times that of young women It s a crisis of fathering Boys are growing up with less involved fathers and are more likely to drop out of school drink do drugs become delinquent and end up in prison It s a crisis of purpose Boys old sense of purpose being a warrior a leader or a sole breadwinner are fading Many bright boys are experiencing a purpose void feeling alienated withdrawn and addicted to immediate gratification So what is The Boy Crisis A comprehensive blueprint for what parents teachers and policymakers can do to help our sons become happier healthier men and fathers and leaders worthy of our respect Monthly Catalogue, United States Public Documents, 1984 The Magazine of Wall Street and Business Analyst ,1920 Monthly Catalog of United States Government Publications ,1984 The Magazine of Wall Street ,1920 Magazine of Wall Street and Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume Business Analyst ,1920 covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary

Cancer, Radiation Therapy, and the Market Barbara Bridgman Perkins, 2017-08-16 Appraising cancer as a major medical market in the 2010s Wall Street investors placed their bets on single technology treatment facilities costing 100 300 million each Critics inside medicine called the widely publicized proton center boom crazy medicine and unsustainable public policy There was no valid evidence they claimed that proton beams were more effective than less costly alternatives But developers expected insurance to cover their centers staggeringly high costs and debts Was speculation like this new to health care Cancer Radiation Therapy and the Market shows how the radiation therapy specialty in the United States later called radiation oncology coevolved with its device industry throughout the twentieth century Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices initiated companies to manufacture the devices competitively and designed hospital and freestanding procedure units to utilize them In the process they incorporated market strategies into medical organization and practice Although palliative benefits and striking tumor reductions fueled hopes of curing cancer scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival This thoroughly documented and provocative inquiry concludes that public health policy needs to re evaluate market driven high tech medicine and build evidence based health care systems Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and quarrying trends and on statistical surveying methods used

by Minerals Information plus a statistical summary Grain World ,1914 **Rare Earth Frontiers** Julie M. Klinger, 2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the guest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation Moore's Rural New-Yorker, 1891 The Statist ,1938 B.A.S.I.C. ,1962 Cumulative Author Index to Psychological Abstracts, 1978 Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 Forthcoming Books Rose Arny, 1984-03

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