

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	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant	G	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Speed of light in a vacuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant	h	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron	e	$-1,6 \times 10^{-19} \text{ C}$
Electron mass	m_e	$9,11 \times 10^{-31} \text{ kg}$
Mass of the Earth	M	$5,98 \times 10^{24} \text{ kg}$
Radius of the Earth	R_E	$6,38 \times 10^6 \text{ m}$

TABLE 2: FORMULAE

MOTION

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$ OR $\Delta y = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$ OR $v_f^2 = v_i^2 + 2a\Delta y$	$\Delta x = \left(\frac{v_i + v_f}{2}\right)\Delta t$ OR $\Delta y = \left(\frac{v_i + v_f}{2}\right)\Delta t$

FORCE

$F_{\text{net}} = ma$	$p = mv$
$f_k^{\text{max}} = \mu_k N$	$f_s = \mu_s N$
$F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ OR $F = \frac{Gm_1m_2}{r^2}$	$g = \frac{GM}{d^2}$ OR $g = \frac{GM}{r^2}$

WORK, ENERGY AND POWER

$W = F\Delta x \cos\theta$	$U = mgh$ OR $E_p = mgh$
$K = \frac{1}{2}mv^2$ OR $E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta K$ OR $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{net}} = Fv_{\text{net}}$	

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R Bogdan



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Learning Science Barbara Schneider, Joseph Krajcik, Jari Lavonen, 2020-02-11 An innovative internationally developed system to help advance science learning and instruction for high school students This book tells the story of a 3 6 million research project funded by the National Science Foundation aimed at increasing scientific literacy and addressing global concerns of declining science engagement Studying dozens of classrooms across the United States and Finland this international team combines large scale studies with intensive interviews from teachers and students to examine how to transform science education Written for teachers parents policymakers and researchers this book offers solutions for matching science learning and instruction with newly recommended twenty first century standards Inside the Mathematics Class Uwe Gellert, Christine Knipping, Hauke Straehler-Pohl, 2018-09-26 This volume is a forward looking intersection of Sociological perspectives on mathematics classrooms and socio political perspectives on mathematics education The first perspective has generated a substantial body of knowledge in the mathematics education Interactionist research has deepened our understanding of interaction processes socio mathematical norms and the negotiation of meaning generating a micro sociology or a micro ethnography of the mathematics classroom More recently socio political perspectives on mathematics education interrelate educational practices in mathematics with macro social issues of social equity class and race and with the policies that regulate institutionalized mathematics education This book documents strings together and juxtaposes research that uses ethnographical classroom data to explain on the one hand how socio political issues play out in the mathematics class On the other hand it illuminates how class race etc affect the micro sociology of the mathematics classroom The volume advances the knowledge in the field by providing an empirical grounding of socio political research on mathematics education and it extends the frame in which mathematical classroom cultures are conceived **Exotic Nuclei (Iasen-2013) - Proceedings Of The First International African Symposium On Exotic Nuclei** Yuri Erastovich Penionzhkevich, Evgeni A Cherepanov, Dmitri Kamanin, Robert Bark, John Christopher Cornell, 2014-11-20 This book is a collection of talks presented at the First International African Symposium on Exotic Nuclei IASEN 2013 The symposium was held at Cape Town South Africa from 2 6 December 2013 The IASEN2013 was dedicated to the problems of producing and investigating nuclei far from the line of stability The symposium was organized by two scientific centers iThemba LABS South Africa and the Joint Institute for Nuclear Research Dubna The main goal of the Symposium was to discuss the latest results on the production and study of the properties of the lightest to heaviest nuclei as well as the plans for future joint investigations in the field of exotic nuclei The talks were presented by the leading scientists in the field Among the topics of the symposium were the following production and study of properties of nuclei in extreme states strongly deformed nuclei highly excited and nuclei far from the line of stability as well as nuclei having large angular momenta New results of the investigations are presented in this book In particular the latest results on the synthesis of new

superheavy elements are also presented At the Symposium were talks devoted to existing detecting devices and accelerators of exotic nuclei as well as to the future projects for the creation of similar set ups **Dislocating the Orient** Daniel Foliard,2017-04-13 While the twentieth century s conflicting visions and exploitation of the Middle East are well documented the origins of the concept of the Middle East itself have been largely ignored With *Dislocating the Orient* Daniel Foliard tells the story of how the land was brought into being exploring how maps knowledge and blind ignorance all participated in the construction of this imagined region Foliard vividly illustrates how the British first defined the Middle East as a geopolitical and cartographic region in the nineteenth and early twentieth centuries through their imperial maps Until then the region had never been clearly distinguished from the East or the Orient In the course of their colonial activities however the British began to conceive of the Middle East as a separate and distinct part of the world with consequences that continue to be felt today As they reimagined boundaries the British produced disputed and finally dramatically transformed the geography of the area both culturally and physically over the course of their colonial era Using a wide variety of primary texts and historical maps to show how the idea of the Middle East came into being *Dislocating the Orient* will interest historians of the Middle East the British empire cultural geography and cartography *Chemistry and Industry Review* ,1949 *The British Journal of Photography* ,1972 ERIC Educational Documents Index, 1966-69: Minor descriptors and author index ,1970 **New Statesman** ,1962 *Directions* ,1979 *The Compact Edition of the Oxford English Dictionary* Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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