

**EXAMINATION DATA SHEET FOR THE PHYSICAL SCIENCES  
(PHYSICS)**

**TABLE 1 PHYSICAL CONSTANTS**

NAME	SYMBOL	VALUE
Acceleration due to gravity on Earth	$g$	$9,8 \text{ m}\cdot\text{s}^{-2}$
Speed of light in a vacuum	$c$	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Universal gravitational constant	$G$	$6,7 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Coulomb's constant	$k$	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Magnitude of charge on electron	$e$	$1,6 \times 10^{-19} \text{ C}$
Mass of an electron	$m_e$	$9,1 \times 10^{-31} \text{ kg}$
Planck's constant	$h$	$6,6 \times 10^{-34} \text{ J}\cdot\text{s}$
1 electron-volt	$\text{eV}$	$1,6 \times 10^{-19} \text{ J}$

**TABLE 2 PHYSICS FORMULAE****MOTION**

$v = u + at$ or $v_f = v_i + a\Delta t$	$s = \left(\frac{v+u}{2}\right)t$ or $\Delta x = \left(\frac{v_f+v_i}{2}\right)\Delta t$
$v^2 = u^2 + 2as$ or $v_f^2 = v_i^2 + 2a\Delta x$	$s = ut + \frac{1}{2}at^2$ or $\Delta x = v_i\Delta t + \frac{1}{2}a(\Delta t)^2$

**FORCE AND MOMENTUM**

$F_{\text{net}} = ma$	$F_{\text{net}} = \frac{\Delta p}{\Delta t}$ or $F_{\text{net}}\Delta t = m\Delta v$	$J = \Delta p = mv - mu$ or $J = \Delta p = mv_f - mv_i$
$p = mv$	$F_g = mg$	$F_{fs}^{\text{max}} = \mu_s F_N$ $F_{fk} = \mu_k F_N$

**WORK, ENERGY AND POWER**

$W = Fs$ or $W = F\Delta x$ or $W = F\Delta x \cos\theta$	$P = \frac{W}{t}$	$P = Fv$
$E_p = mgh$	$E_k = \frac{1}{2}mv^2$	$W_{\text{net}} = \Delta E_k$
$\% \text{ efficiency} = \frac{\text{power}_{\text{out}}}{\text{power}_{\text{in}}} \times 100$		

# Mindset Learn Physics Grade Final Exam 2014

**Michael E. Auer, Thrasyvoulos Tsiatsos**



## **Mindset Learn Physics Grade Final Exam 2014:**

Women and Physics Laura McCullough, 2016-04-01 This book begins with an examination of the numbers of women in physics in English speaking countries moving on to examine factors that affect girls and their decision to continue in science right through to education and on into the problems that women in physics careers face Looking at all of these topics with one eye on the progress that the field has made in the past few years and another on those things that we have yet to address the book surveys the most current research as it tries to identify strategies and topics that have significant impact on issues that women have in the field     New Realities, Mobile Systems and Applications Michael E. Auer, Thrasyvoulos

Tsiatsos, 2022-04-08 This book devotes to new approaches in interactive mobile technologies with a focus on learning Interactive mobile technologies are today the core of many if not all fields of society Not only the younger generation of students expects a mobile working and learning environment And nearly daily new ideas technologies and solutions boost this trend To discuss and assess the trends in the interactive mobile field are the aims connected with the 14th International Conference on Interactive Mobile Communication Technologies and Learning IMCL2021 which was held online from 4 to 5 November 2021 Since its beginning in 2006 this conference is devoted to new approaches in interactive mobile technologies with a focus on learning Nowadays the IMCL conferences are a forum of the exchange of new research results and relevant trends as well as the exchange of experiences and examples of good practice Interested readership includes policy makers academics educators researchers in pedagogy and learning theory school teachers learning Industry further education lecturers etc     **Learning Analytics in Higher Education** John Zilvinskis, Victor Borden, 2017-09-28 Gain an overview of

learning analytics technologies in higher education including broad considerations and the barriers to introducing them This volume features the work of practitioners who led some of the most notable implementations like the Open Learning Initiative now at Stanford University faculty led projects at the University of Michigan including ECoach and SLAM the University of Maryland Baltimore Countys Check My Activity and Indiana Universitys FLAGS early warning system and e course advising initiatives Readers will glean from these experiences as well as from a national project in Australia on innovative approaches for enhancing student experience an informed description of the role of feedback within these technologies and a thorough discussion of ethical and social justice issues related to the use of learning analytics and why higher education institutions should approach such initiatives cautiously intentionally and collaboratively This is the 179th volume of the Jossey Bass quarterly report series New Directions for Higher Education Addressed to presidents vice presidents deans and other higher education decision makers on all kinds of campuses it provides timely information and authoritative advice about major issues and administrative problems confronting every institution     **Improve Your Physics Grade** Ronald Aaron, Robin H. Aaron, 1984-03 An entirely student oriented supplement for both calculus and non calculus physics courses Introduces good natured humor into the subject of physics and is designed to help students pass

exams Shows that students learn from their own mistakes and the mistakes of others Includes test strategies memorization tricks and specialized learning techniques Includes problems and learning illustrations

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