

**DATA FOR PHYSICAL SCIENCES GRADE 12
PAPER 1 (PHYSICS)**

**GEGEWENS VIR FISIIESE WETENSKAPPE GRAAD 12
VRAESTEL 1 (FISIKA)**

TABLE 1: PHYSICAL CONSTANTS/TABEL 1: FISIIESE KONSTANTES

NAME/NAAM	SYMBOL/SIMBOOL	VALUE/WAARDE
Acceleration due to gravity Swaartekragversnelling	g	$9,8 \text{ m}\cdot\text{s}^{-2}$
Universal gravitational constant Universele gravitasiekonstant	G	$6,67 \times 10^{-11} \text{ N}\cdot\text{m}^2\cdot\text{kg}^{-2}$
Radius of the Earth Radius van die Aarde	R_E	$6,38 \times 10^6 \text{ m}$
Mass of the Earth Masse van die Aarde	M_E	$5,98 \times 10^{24} \text{ kg}$
Speed of light in a vacuum Speed van lig in 'n vakuum	c	$3,0 \times 10^8 \text{ m}\cdot\text{s}^{-1}$
Planck's constant Planck se konstante	h	$6,63 \times 10^{-34} \text{ J}\cdot\text{s}$
Coulomb's constant Coulomb se konstante	k	$9,0 \times 10^9 \text{ N}\cdot\text{m}^2\cdot\text{C}^{-2}$
Charge on electron Lading op elektron	e	$-1,6 \times 10^{-19} \text{ C}$
Electron mass Elektronmassa	m_e	$9,11 \times 10^{-31} \text{ kg}$

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John Clark



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Physical Science , Glencoe Physical Science Charles W. McLaughlin,2012 **Physical Sciences** ,2016 **Physical Science Workbook** ,1995 Core Objectives Mid-year and Final Examinations Detroit Public Schools,1983 *Physical Sciences* Carlien Fanoy,2021 **Physical Science, student note book: Grade 12** , Physical Science for Gr. 12 J. M. Lucas,2008 **Physical Science Grade 12** ,2002 *Resource Guide in Physical Science* Kalamazoo Public Schools (Kalamazoo, Mich.). Department of Instruction and Guidance,1960 **Using Physics Gadgets and Gizmos, Grades 9-12** Matthew Bobrowsky,Mikko Korhonen,Jukka Kohtamäki,2014-03-01 What student or teacher can resist the chance to experiment with Rocket Launchers Drinking Birds Dropper Poppers Boomwhackers Flying Pigs and more The 54 experiments in Using Physics Gadgets and Gizmos Grades 9 12 encourage your high school students to explore a variety of phenomena involved with pressure and force thermodynamics energy light and color resonance buoyancy two dimensional motion angular momentum magnetism and electromagnetic induction The authors say there are three good reasons to buy this book 1 To improve your students thinking skills and problem solving abilities 2 To acquire easy to perform experiments that engage students in the topic 3 To make your physics lessons waaaaay more cool The phenomenon based learning PBL approach used by the authors two Finnish teachers and a U S professor is as educational as the experiments are attention grabbing Instead of putting the theory before the application PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why Students engage in the activities not as a task to be completed but as exploration and discovery The idea is to help your students go beyond simply memorizing physics facts Using Physics Gadgets and Gizmos can help them learn broader concepts useful critical thinking skills and science and engineering practices as defined by the Next Generation Science Standards And thanks to those Boomwhackers and Flying Pigs both your students and you will have some serious fun For more information about hands on materials for Using Physical Science Gadgets and Gizmos books visit Arbor Scientific at <http://www.arborsci.com> nsta hs kits **Physical Sciences Explained** Ron Jones,Norman Davies,Nomvuyo Goqi,2007 Physical Sciences ,2016 Physical Sciences Santie Du Plessis,2014 *Supplementary exercises, gr 12: physical Science* , **Winners! - Physical Science Complete Set(12 X 1)** Macmillan,2013-09-01 *North West Shelf Project* John Clark,1988 **Doc Scientia Physical Sciences. Chemistry** Annalize Ferreira,Lettie Fischer,Pieter Van der Merwe,Doc Scientia Centre,2013 **Applied Physical Science Curriculum Update (89-90)** Plymouth-Carver Regional Schools District (Mass.),1990 Modules McDougal Littell Incorporated,2005-01-01

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