

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

$F_{\text{net}} = ma$	$p = mv$
$f_k^{\text{net}} = \mu_k N$	$f_k = \mu_k N$
$F_{\text{net}} \Delta t = \Delta p$ $\Delta p = mv_f - mv_i$	$w = mg$
$F = \frac{Gm_1 m_2}{d^2}$ OR $F = \frac{Gm_1 m_2}{r^2}$	$g = \frac{GM}{d^2}$ 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 $\Delta E_k = E_{kf} - E_{ki}$
$W_{\text{nc}} = \Delta K + \Delta U$ OR $W_{\text{nc}} = \Delta E_k + \Delta E_p$	$P = \frac{W}{\Delta t}$
$P_{\text{avg}} = Fv_{\text{avg}}$	

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Léo Pomar



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organic compounds many of which are essential to life on earth the source of the carbon found in living matter is carbon dioxide in the air or dissolved in water

the water cycle article ecology khan academy - Feb 22 2023

web the water cycle is important in itself and patterns of water cycling and rainfall have major effects on earth s ecosystems however rainfall and surface runoff also play important roles in the cycling of various elements these include carbon nitrogen phosphorus and sulfur

water and carbon cycling royal geographical society - Jul 30 2023

web 1 water and carbon cycles cycling of carbon and water are central to supporting life on earth and an understanding of these cycles underpins some of the most difficult international challenges of our times both these cycles are included in the core content elements of the specifications for a level geography to be first taught from 20161

water cycle wikipedia - May 16 2022

web diagram depicting the global water cycle the water cycle also known as the hydrologic cycle or the hydrological cycle is a biogeochemical cycle that describes the continuous movement of water on above and below the surface of the earth