

## 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

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

## FORCE

$F_{\text{net}} = ma$	$p = mv$
$F_{\text{fr}}^{\text{max}} = \mu_s N$	$f_k = \mu_k N$
$F_{\text{net}}\cdot t = \Delta p$ $\Delta p = m\cdot v_{f_x} - m\cdot v_{i_x}$	$w = mg$
$F = \frac{Gm_1m_2}{d^2}$ 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 $W_{\text{net}} = \Delta E_k$
$W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$	$\Delta K = K_f - K_i$ OR $\Delta E_k = E_{k_f} - E_{k_i}$
$P_{\text{net}} = Fv_{\text{net}}$	$P = \frac{W}{t}$

# Physical Science Caps Gr 12014 14 November

**Paul G. Hewitt, John A. Suchocki, Leslie  
A. Hewitt**

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