

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

| | |
|--|--|
| $F_{\text{net}} = ma$ | $p = mv$ |
| $F_{\text{fr}}^{\text{max}} = \mu_s N$ | $f_k = \mu_k N$ |
| $F_{\text{net}}\cdot t = \Delta p$ $\Delta p = m\cdot v_{f_x} - m\cdot v_{i_x}$ | $w = mg$ |
| $F = \frac{Gm_1 m_2}{d^2}$ 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 $W_{\text{net}} = \Delta E_k$ |
| $W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$ | $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{k_f} - E_{k_i}$ |
| $P_{\text{net}} = Fv_{\text{net}}$ | $P = \frac{W}{t}$ |

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