

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

| | |
|---|--|
| $F_{\text{net}} = ma$ | $p = mv$ |
| $f_k^{\text{max}} = \mu_k N$ | $f_s = \mu_s N$ |
| $F_{\text{net}}\Delta t = \Delta p$ $\Delta p = mv_f - mv_i$ | $w = mg$ |
| $F = \frac{Gm_1m_2}{d^2}$ 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 $W_{\text{net}} = \Delta E_k$ $\Delta K = K_f - K_i$ OR $\Delta E_k = E_{kf} - E_{ki}$ |
| $W_{\text{net}} = \Delta K + \Delta U$ OR $W_{\text{net}} = \Delta E_k + \Delta E_p$ | $P = \frac{W}{\Delta t}$ |
| $P_{\text{net}} = Fv_{\text{net}}$ | |

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en mathématiques la loi des grands nombres permet d'interpréter la probabilité comme une fréquence de réalisation justifiant ainsi le principe des sondages et présente l'espérance comme une moyenne plus formellement elle signifie que la moyenne empirique calculée sur les valeurs d'un échantillon converge vers l'espérance lorsque la taille de l'échantillon tend vers l'infini

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une loi forte des grands nombres est une loi mathématique selon laquelle la moyenne des n premiers termes d'une suite de variables aléatoires converge presque sûrement vers une

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exercices la loi des grands nombres est un énoncé central du calcul des probabilités qui en particulier fait asymptotiquement émerger le déterminisme au sein d'un modèle désordonné

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pour détecter une nouvelle particule les physiciens répètent les expériences un très grand nombre de fois afin de réduire l'incertitude des mesures à une valeur proche de zéro et ce

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nous l'avons vu les nombres aident à approcher la structure du cosmos c'est l'idée que l'ordre existe au sein du chaos
apparent ainsi les nombres see more