

①

PHYSICS

Class-11th

Fundamental Quantities

Length (m)
Mass (kg)
Time (s)
Temperature (K)
Current (A)
Amount of Subst. (mol)
Luminous intensity (Cd)

% error - $\frac{\Delta a}{a} \times 100$

Kinematic Equation

$$v = u + at$$

$$s = ut + \frac{1}{2}at^2$$

$$v^2 = u^2 + 2as$$

Man in elevator

Apparent weight

$$R = m(a+g) \text{ upward}$$

$$R = m(g-a) \text{ downward}$$

$$R = mg \quad v = \text{constant}$$

$$R = 0 \quad a = g$$

Projectile Motion

Time of flight -
 $T = \frac{2u \sin \theta}{g} = \sqrt{\frac{2h}{g}}$

Max. horizontal distance -
 $R = \frac{u^2 \sin 2\theta}{g} = u \sqrt{\frac{2h}{g}}$

$R_{\max} = \frac{u^2}{g} \quad (\theta = 45^\circ)$

Max height -

$$H = \frac{u^2 \sin^2 \theta}{2g}$$

Velocity -

$$v = \sqrt{u^2 + g^2 t^2}$$

Dimensional formula

Speed - $M^0 L^1 T^{-1}$
Impulse - $M^1 L^1 T^{-2}$
Power - $M^1 L^2 T^{-3}$

Elastic Collision [1-D]

$$V_1 = u_1 \left(\frac{m_1 - m_2}{m_1 + m_2} \right) + \frac{2u_2 m_2}{m_1 + m_2}$$

$$V_2 = u_2 \left(\frac{m_2 - m_1}{m_1 + m_2} \right) + u_1 \left(\frac{2m_1}{m_1 + m_2} \right)$$

Elastic Collision [2-D]

$$\frac{1}{2} m_1 u_1^2 = \frac{1}{2} m_1 v_1^2 + \frac{1}{2} m_2 v_2^2$$

$$m_1 v_1 \sin \theta_1 = m_2 v_2 \sin \theta_2$$

$$m_1 u_1 = m_1 v_1 \cos \theta_1 + m_2 v_2 \cos \theta_2$$

Perfectly inelastic [1-D] - (energy lost)

$$\Delta K = -\frac{1}{2} \left[\frac{m_1 m_2}{m_1 + m_2} \right] u_1^2$$

Tension (pulley)

$$T = \frac{2Mmg}{M+m}$$

$$a = \frac{g(M-m)}{M+m}$$

Circular Motion

$$F_c = \frac{Mv^2}{R}$$

Kinetic friction

$$F_k = \mu_k N$$

$$\mu_k < \mu_s$$

Impulse (j) = F × Δt

$$\frac{dj}{dt} = F$$

$$j = \Delta p$$

Static friction

$$F_{s\max} = \mu_s N$$

$$F_s \leq \mu_s N$$

Potential energy

$$W = -mgh = P$$

Power

$$P = dw/dt$$

$$P = \vec{F} \cdot \vec{v}$$

Kinetic energy

$$K = \frac{1}{2} mv^2$$

$$K = \frac{p^2}{2m}$$

$$K_f - K_i = W$$

elastic collision - $e = 1$
inelastic & - $0 < e < 1$
perfectly inelastic - $e = 0$
super elastic - $e > 1$

Coefficient of restitution

$$e = \frac{v_2 - v_1}{u_1 - u_2}$$

$$1 > \frac{K_f}{K_i} = \frac{m_1}{m_1 + m_2}$$

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engineers or scientists who solve differential equations on an occasional basis Encyclopaedia of Mathematics Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics. It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985. The annotated translation consists of ten volumes including a special index volume. There are three kinds of articles in this ENCYCLOPAEDIA. First of all, there are survey-type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used. The main requirement for these articles has been that they should give a reasonably complete up-to-date account of the current state of affairs in these areas and that they should be maximally accessible. On the whole, these articles should be understandable to mathematics students in their first specialization years, to graduates from other mathematical areas, and depending on the specific subject, to specialists in other domains of science, engineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems, techniques, and concepts involved in the area in question. They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions. The second kind of article, of medium length, contains more detailed concrete problems, results, and techniques. **Physics Briefs**, 1994 Nuclear Science Abstracts, 1975 Encyclopaedia of Mathematics M. Hazewinkel, 2013-11-11

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web 2 they can be used by the teacher to assess understanding of the activity or experiment or can be compared with the results of other students 3 line graph should be going up and to the right 4 time 5 mass of product 6 the mass of product increases with time 7 model 8 theory 9 law 10 an early model held that earth was the center of

unit 1 nature of science mrs schmidt s science google sites - Aug 04 2022

web in unit 1 of science students will develop a better understanding of the vast subject of science students gain scientific knowledge by observing the natural and constructed world

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web study with quizlet and memorize flashcards containing terms like what are the following steps of 1 make an observation 2 ask a question 3 form a hypothesis or testable explanation 4 make a prediction based on the hypothesis 5 test the prediction 5 iterate use the results to make new hypotheses or predictions what is a controlled

unit 1 nature of science fernandez s page - Dec 28 2021

web monday sept 10 tuesday sept 11 agenda 1 finalize folder for unit 1 folder should be ready to hand in wednesday start of class 2 study for test 6 steps of scientific method 4 parts of a controlled experiment data analysis data display