

TABEL FORMULE - ETAPA I FIZICĂ

Clasa a VI-a

NR. CRT.	DENUMIRE FORMULĂ	FORMULĂ	OBSERVAȚII
1.	Valoarea medie a măsurătorilor	$\bar{V} = \frac{V_1 + V_2 + \dots + V_n}{n}$	<ul style="list-style-type: none"> prin \bar{V} se înțelege valoarea medie; valoarea medie este valoarea cea mai apropiată de valoarea reală; V_1, \dots, V_n sunt valorile măsurate; valorile măsurate, care sunt foarte diferite de majoritatea celorlalte, nu trebuie luate în calcul.
2.	Eroarea medie	$\Delta V_{\text{med}} = \frac{\Delta V_1 + \Delta V_2 + \dots + \Delta V_n}{n}$	<ul style="list-style-type: none"> prin ΔV_{med} se înțelege valoarea medie a erorilor de măsură, luate în modul, corespunzătoare tuturor determinărilor.
3.	Rezultatul măsurătorii	$V = \bar{V} \pm \Delta V_{\text{med}}$	<ul style="list-style-type: none"> valoarea reală a mărimii fizice măsurate este cuprinsă în intervalul: $\bar{V} - \Delta V_{\text{med}} \leq V \leq \bar{V} + \Delta V_{\text{med}}$
4.	Perimetrul	$P = \text{lungimea conturului}$	Perimetrul pătratului $P = 4l$ Perimetrul dreptunghiului $P = 2(L + l)$
5.	Aria/Suprafața	$S_{\text{pătrat}} = l^2$ $S_{\text{dreptunghi}} = L \cdot l$	Suprafața laterală a unui paralelipiped dreptunghic: $S_{\text{laterală}} = 2(L + l)h \Rightarrow S_{\text{laterală}} = P \cdot h$
6.	Volumul	$V_{\text{cub}} = l^3$ $V_{\text{paralelipiped dreptunghic}} = L \cdot l \cdot h$ $V_{\text{cilindru drept}} = A_{\text{bază}} \cdot h$	<ul style="list-style-type: none"> $1\text{m}^3 = 1000\text{dm}^3 = 1000000\text{cm}^3$ $1\text{L} = 1\text{dm}^3$ $1\text{m}^3 = 1000\text{L}$ $1\text{mL} = 1\text{cm}^3$
7.	Durata	$1\text{h} = 60\text{min.} = 3600\text{s}$ $1\text{min.} = 60\text{s}$	
8.	Perioada unui pendul	$T = \frac{t}{N}$	T = perioada oscilațiilor N = numărul oscilațiilor t = durata oscilațiilor
9.	Multiplicii, submultiplicii ai metrului	$1\text{m} = 10\text{dm} = 100\text{cm} = 1000\text{mm}$ $1\text{km} = 1000\text{m}$ $1\text{hm} = 100\text{m}$ $1\text{dam} = 10\text{m}$ $1\text{dm} = 0,1\text{m}$ $1\text{cm} = 0,01\text{m}$ $1\text{mm} = 0,001\text{m}$	$1\text{ha} = 10000\text{m}^2$ hectar $1\text{ar} = 100\text{m}^2$ ar $1\text{dm}^2 = 0,01\text{m}^2$ $1\text{cm}^2 = 0,0001\text{m}^2$ $1\text{mm}^2 = 0,000001\text{m}^2$

Formule Fizica Clasa A 6 A Formule Online Probleme Si

Hripsime Ceamurian



Formule Fizica Clasa A 6 A Formule Online Probleme Si:

Experimente de fizică pentru elevi și studenți Nicolae Sfetcu, 2025-09-14 Cartea explorează rolul central al experimentelor în predarea și învățarea fizicii punând accent pe importanța lor formativă. Lucrarea argumentează că laboratorul de fizică este un mediu unic de învățare activă unde elevii trec de la memorarea pasivă a formulelor la descoperirea și verificarea directă a conceptelor. Sunt prezentate fundamentele teoretice ale învățării prin investigație și constructivism apoi o varietate de experimente de la măsurarea accelerației gravitaționale, legea lui Ohm și mișcarea pendular amortizat până la interferența luminii, efectul fotoelectric și determinarea constantei lui Planck. Cartea discută și valoarea laboratoarelor virtuale ca suport complementar subliniind că acestea pot crește eficiența și accesibilitatea învățării dar nu pot înlocui complet experiența practică. Autorul abordează impactul experimentelor asupra motivației și gândirii critice colaborării și formării unei viziuni științifice integrate. Sunt analizate provocările implementării în curriculum resurse limitate siguranța rezistența la schimbare și oferirea soluțiilor pentru depășirea lor. În ansamblu volumul este atât un ghid practic de experimente cât și o pledoarie pentru integrarea lor sistematică în educația STEM.

CUPRINS

Importanța și rolul experimentelor de fizică în educație
Introducere
Fundamente teoretice ale învățării prin experiment
Exemple de experimente de laborator în predarea fizicii
Experimente digitale și virtuale ca instrumente complementare
Impactul pedagogic al experimentelor asupra învățării științelor
Provocările implementării experimentelor de fizică în educație
De ce experimente de fizică
Pendulul fizic și factorul Q
Planul înclinat și coeficientul de frecare
Determinarea vitezei sunetului în aer prin rezonanță
Legea lui Ohm și focul din grafit
Determinarea constantei lui Planck folosind LED-uri
Legea lui Snell și unghiul Brewster
Difracție cu CD/DVD
Cădere liberă cu video tracking
Viscozitate și legea lui Stokes
Legea răsăritului lui Newton
Oscilator masă-arc și rezonanță
Legea inversului pătratului pentru lumină
Inducție electromagnetică de masă
Spectrul vibrațiilor unei corzi
ntinse
analiza Fourier
Balistic video
determinarea unghiului optim de lansare
Kituri educaționale
Clasele primare 6-10 ani
Gimnaziu 11-14 ani
Liceu 15-18 ani
Experimente amuzante cu provocări de investigație
Experimente simple sigure și amuzante
Construcții
Cum construiești un zmeu și de ce zboară de fapt
Construirea unui telescop reflector newtonian
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