

Physics 124 Data Sheet

Displacement: $\Delta x = x_f - x_i$

Average Speed: $v = \frac{d}{t}$

Average Velocity: $v_{av} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_i}{t_f - t_i}$

Average Acceleration: $a_{av} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$

Instantaneous Speed: $|v|$

Instantaneous Velocity: $v = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t}$

Instantaneous Acceleration: $a = \lim_{\Delta t \rightarrow 0} \frac{\Delta v}{\Delta t}$

Equations of motion: (a & α constant)

$v_x = v_{0x} + a_x t$	$v_y = v_{0y} + a_y t$	$\omega = \omega_0 + \alpha t$
$x = x_0 + \frac{1}{2}(v_{0x} + v_x)t$	$y = y_0 + \frac{1}{2}(v_{0y} + v_y)t$	$\theta = \theta_0 + \frac{1}{2}(\omega_0 + \omega)t$
$x = x_0 + v_{0x}t + \frac{1}{2}a_x t^2$	$y = y_0 + v_{0y}t + \frac{1}{2}a_y t^2$	$\theta = \theta_0 + \omega_0 t + \frac{1}{2}\alpha t^2$
$v_x^2 = v_{0x}^2 + 2a_x(x - x_0)$	$v_y^2 = v_{0y}^2 + 2a_y(y - y_0)$	$\omega^2 = \omega_0^2 + 2\alpha(\theta - \theta_0)$

Projectile Motion:

Horizontal launch:

Time of Flight: $t = \sqrt{\frac{2h}{g}}$

Range: $v_0 \sqrt{\frac{2h}{g}}$

If the initial & final elevations are the same:

Time of Flight: $t = \frac{2v_{0y}}{g}$

Range: $\left(\frac{v_0^2}{g}\right) \sin 2\theta$

Maximum range (when $\sin 2\theta = 1$ or $\theta = 45^\circ$):

$R_{\max} = \frac{v_0^2}{g}$

Newton's Laws of Motion:

Newton's Second Law: $F_{\text{net}} = ma$

Weight: $W = mg$

Hooke's Law: $F_x = -kx$

Kinetic Energy: $K = \frac{1}{2}mv^2$

Kinetic Friction: $f_k = \mu_k N$

Static Friction: $f_{s,\max} = \mu_s N$

Centripetal Acceleration: $a_{cp} = \frac{v^2}{r}$

Centripetal Force: $f_{cp} = ma_{cp} = \frac{mv^2}{r}$

Gravitational: $U = mgy$

Spring: $U = \frac{1}{2}kx^2$

Physics Exemplar Papergrade 124

Daniel Shiffman



Physics Exemplar Papergrade 124:

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Table of Contents Physics Exemplar Papergrade 124

1. Understanding the eBook Physics Exemplar Papergrade 124
 - The Rise of Digital Reading Physics Exemplar Papergrade 124
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Exemplar Papergrade 124
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Exemplar Papergrade 124
 - User-Friendly Interface

4. Exploring eBook Recommendations from Physics Exemplar Papergrade 124
 - Personalized Recommendations
 - Physics Exemplar Papergrade 124 User Reviews and Ratings
 - Physics Exemplar Papergrade 124 and Bestseller Lists
5. Accessing Physics Exemplar Papergrade 124 Free and Paid eBooks
 - Physics Exemplar Papergrade 124 Public Domain eBooks
 - Physics Exemplar Papergrade 124 eBook Subscription Services
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Exemplar Papergrade 124
 - Highlighting and Note-Taking Physics Exemplar Papergrade 124
 - Interactive Elements Physics Exemplar Papergrade 124
8. Staying Engaged with Physics Exemplar Papergrade 124
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Exemplar Papergrade 124
9. Balancing eBooks and Physical Books Physics Exemplar Papergrade 124
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Exemplar Papergrade 124
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Exemplar Papergrade 124
 - Setting Reading Goals Physics Exemplar Papergrade 124
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Physics Exemplar Papergrade 124
 - Fact-Checking eBook Content of Physics Exemplar Papergrade 124
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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