

Kinematics

1 D Kinematics

x or y direction

$$v = v_0 + at$$

$$x - x_0 = v_0 t + \frac{1}{2} at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

Vertical acceleration for projectile is always -9.8 m/s^2 (even on the way up)

At peak height $v=0$
displacement is positive if ends up higher or to right

If starts from rest or dropped $v_0=0$

displacement is negative if ends up lower or to left

Even with negative acceleration you can be speeding up (if velocity and acceleration have same sign)

2 D Kinematics

y direction

$$v_y = (v_0 \sin \theta) + (-9.8)t$$

$$y - y_0 = (v_0 \sin \theta) t + \frac{1}{2} (-9.8) t^2$$

$$v_y^2 = (v_0 \sin \theta)^2 + 2(-9.8)(y - y_0)$$

x direction

$$d = (v_0 \cos \theta) t$$

vertical component v_y decreases by 9.8 m/s every second

at peak height $v_y = 0$

Range formula (can only if $y_f = y_0 = 0$)

$$R = \frac{v_0^2 \sin(2\theta)}{g}$$

horizontal component is constant v_x



Graphing motion

(Note: the graphs below do not represent the same moving object)

For position vs. time

- Slope is velocity
- Steep slope means moving fast
- Curvature is acceleration



For velocity vs. time

- Slope is acceleration
- Going towards $v=0$ axis means slowing
- Horiz. line means constant speed

Note: Area under v vs. t gives you displacement



Physics 1 Study Guide

Jianjun Gao



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Reviewing **Physics 1 Study Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Physics 1 Study Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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