

Kinematics - Physics 11 Unit 4 Cheat Sheet by goldennfluff via cheatography.com/209545/cs/45074/

Key Concepts

- 1. Displacement (d→): Change in position
- 2. Velocity ($v\rightarrow$): Rate of change of displacement. Has both magnitude and direction
- a. Initial velocity ($v_i \rightarrow$): Velocity at the start of the time interval
- b. Final Velocity ($v_{\vec{l}}$): Velocity at the end of the time interval.
- 3. Acceleration ($a\rightarrow$): Rate of change of velocity.
- 4. Time (t→): Duration of motion
- 5. Gravity (g \rightarrow): Acceleration due to gravity. g \rightarrow = 9.81m/s² on Earth
- 6. Projectile Motion: The motion of an object projected into the air, horizontal (x) and vertical (y)

Vector Equations

 $v \rightarrow = d \rightarrow /t \text{ (if } a \rightarrow = 0)$

 $v\rightarrow =\Delta d\rightarrow /t$

 $v\rightarrow_{ins}=\Delta d\rightarrow/\Delta t$

v→avg=d→total/ttotal

 $v\rightarrow_{avg}=(v\rightarrow_i+v\rightarrow_f)/2$ (if $a\rightarrow=constant$)

 $a \rightarrow = \Delta v \rightarrow = > v \rightarrow_f = v \rightarrow_i + a \rightarrow t$

d→=(



By goldennfluff

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