

## Flipping Physics Lecture Notes:

#### AP Physics 1 Review of Kinematics

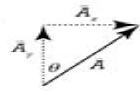
## https://www.flippinophysics.com/ap1-kinematics-review.html

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### Introductory Concepts:

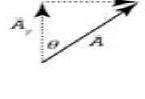
- Vector: Magnitude and Direction
  - Magnitude means the "amount" of the vector or the value of the vector without direction.
- Scalar: Magnitude only, no direction
- Component Vectors
  - Theta won't always be with the horizontal, so the component in the x direction won't always use cosine.

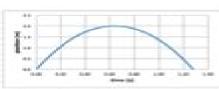
$$\circ \quad \sin \theta = \frac{O}{H} = \frac{\bar{A}_x}{\bar{A}} \Rightarrow \bar{A}_x = \bar{A} \sin \theta$$

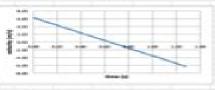


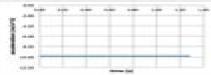
#### Kinnermatikes

- Distance vs. Displacement
  - Distance is how far something moves and it includes the path travelled.
    - Distance is a scalar.
  - Displacement is the straight-line distance from where the object started to where it ended.
    - Displacement is a vector.
    - Displacement is the change in position of an object.  $\Delta \mathbf{x} = \mathbf{x}_* \mathbf{x}_*$
- $Speed = \frac{Distance}{Tbne}$ , is a scalar.
- Velocity,  $\vec{v} = \frac{\Delta \vec{x}}{\Delta t}$ , is a vector.
- Acceleration,  $a = \frac{\Delta v}{\Delta t}$ , is a vector.
- The slope of a position vs. time graph is velocity.
- The slope of a velocity vs. time graph is acceleration.
- On an acceleration vs. time graph, the area between the curve & the time axis is change in velocity.
- On a velocity vs. time graph, the area between the curve & the time axis is change in position which is also called displacement.
- In Free Fall, a<sub>p</sub> = -g = -9.81 m/s<sup>2</sup>.
  - An object is in free fall if the only force acting on it is the force of gravity. In other words: the object is flying through the vacuum you can breathe" and not touching any other objects.









Vacques you can breather a no air resistance.

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**IM Harris** 

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