Oscillation

- · Motion movement of Particles (System) =) from its fixed point.

 - > Particle moves from one place to another place.
- · Simple harmonic motion (conserved) > The accelerated particles moves towards fixed point inection (linear) and return to its origin. 7 axy

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$$w = \frac{d\theta}{dt} = \frac{\theta}{dt}$$

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$$\dot{a} = \frac{d}{dt} \left(\frac{dy}{dt} \right) \quad a = \frac{dv}{dt} \quad a = \frac{d^2y}{dt^2}$$

$$a = \frac{d^2y}{dt^2} = -A \sin \omega t \Rightarrow \frac{d^2y}{dt^2} = -y$$